SASKATCHEWAN
WHEAT POOL

VARIETY TESTS · 1956

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Variety Tests

WHEAT, BARLEY and DURUM WHEAT

1956

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Foreword

By the President of the Saskatchewan Wheat Pool

Canadian grain is sold throughout the world on the basis of its reputation for high quality. This quality is a result of a combination of suitable climatic conditions with careful control of varieties, grades and methods of handling.

At this time, when competition for world markets is becoming increasingly keen, it is more than ever important to carefully guard our reputation for high quality. The responsibility for maintaining this quality rests with all those engaged in the development, production and marketing of grain.

Before a new variety is licensed for distribution in Canada, it is subjected to exacting tests for quality as well as for yield, resistance to disease and many other factors. A variety which does not measure up to these tests cannot be licensed. Similarly careful control of the export standard of grain means that Canada's "Certificate Final" is accepted the world over as a guarantee of quality.

Producers might be reminded that now, more than ever, they should use great care in selecting grain varieties, to make sure that they grow not only the most suitable varieties, but also those of high quality.

This booklet contains a report of the Wheat Pool variety tests conducted by young farm men and women throughout Saskatchewan. The interest and enthusiasm of these young people contributed to a great extent to the success of the project. On behalf of the Saskatchewan Wheat Pool, I would like to express sincere appreciation to them for their efforts.

John H Wesson

Introduction

This booklet is a report on a series of variety tests carried on throughout Saskatchewan in 1956, under the sponsorship of the Saskatchewan Wheat Pool. It is expected that most readers will not study the whole booklet, but that they will be primarily interested in a particular area or crop. Therefore a detailed index is provided so the reader can quickly find that section in which he or she is interested. An alphabetical index of test supervisors is included at the end of the report so that a reader can readily refer to the report on any individual test. For the reader who is interested in the province as a whole, yields are shown in chart form on page 44 (for wheat), page 59 (for barley), and page 73 (for durum wheat). Yield tables are shown on pages 10, 42, and 72.

The following table shows the number of tests conducted during 1956 and the varieties included in them:

Project	No. of Individual Tests	Varieties Tested
Wheat.....	168	Thatcher, Lake, Stewart, Rescue, Chinook, Selkirk, Lee. (1)
Barley.....	114	Husky, Parkland, Vantmore, Vantage, Titan, Montcalm. (2)
Durum Wheat.....	38	Stewart, Pelissier, Golden Ball, Ramsay, Langdon.
Total.....	320	

(1) Only five of the seven varieties listed were included in each test. Thatcher, Lake and Stewart were tested throughout the province. Rescue and Chinook were included only in tests in the west, south-west and west-central areas of the province. They were replaced by Selkirk and Lee in the east, north-east and northern part of the province.

(2) Husky, Parkland, Vantmore and Vantage were included in all barley tests. Titan was included only in those tests located in the west, south-west and west-central portion of Saskatchewan. It was replaced by Montcalm in the east, north-east and northern areas.

ORGANIZATION OF THE TESTING PROGRAM

The project was planned and conducted under the direction of the Field Husbandry Department of the University of Saskatchewan. Valuable assistance was given during the year by Dr. W. J. White, Head of the Department and also by Drs. E. N. Larter, R. G. Anderson and D. R. Knott. The threshing, summarizing and statistical analysis was carried out at the Head Office of the Wheat Pool under the direction of A. D. McLeod.

Individual variety tests were conducted on a voluntary basis by young farm men and women selected for the work by the Wheat Pool delegate in each sub-district. One aim of this testing project is to locate tests as uniformly as possible throughout the province so that they will provide yield information representative of the various climatic conditions which exist. An attempt was made to locate two tests in each Wheat Pool sub-district, and with few exceptions this distribution was achieved.

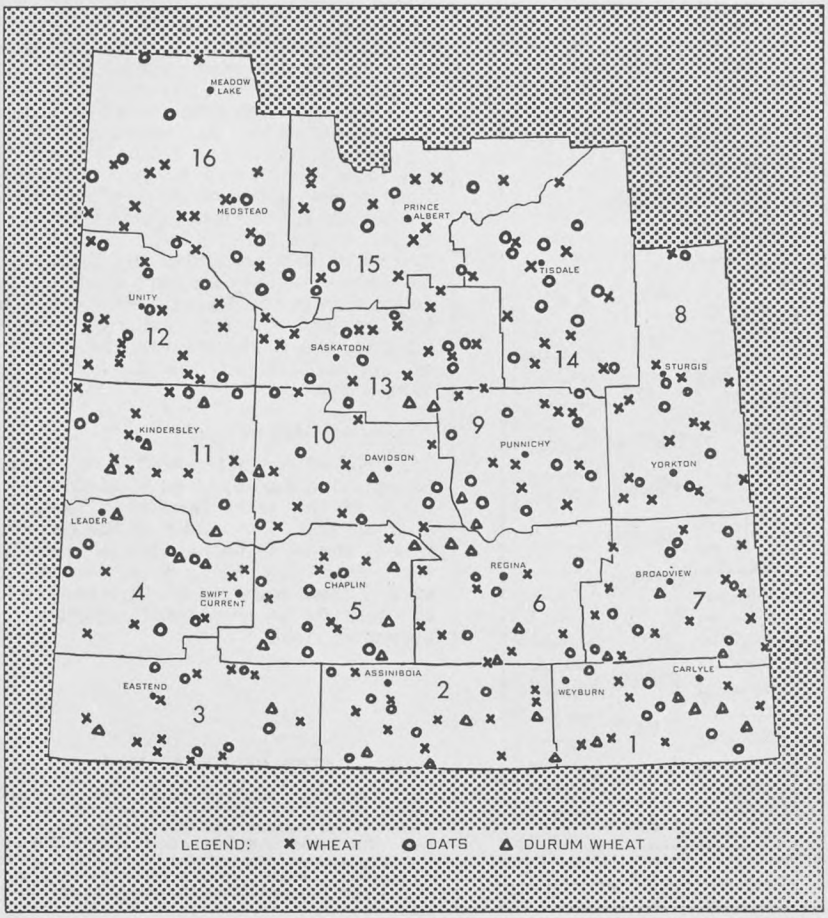
Seed and other necessary equipment for conducting the tests was prepared at the Head Office of the Wheat Pool and mailed to the supervisors, with

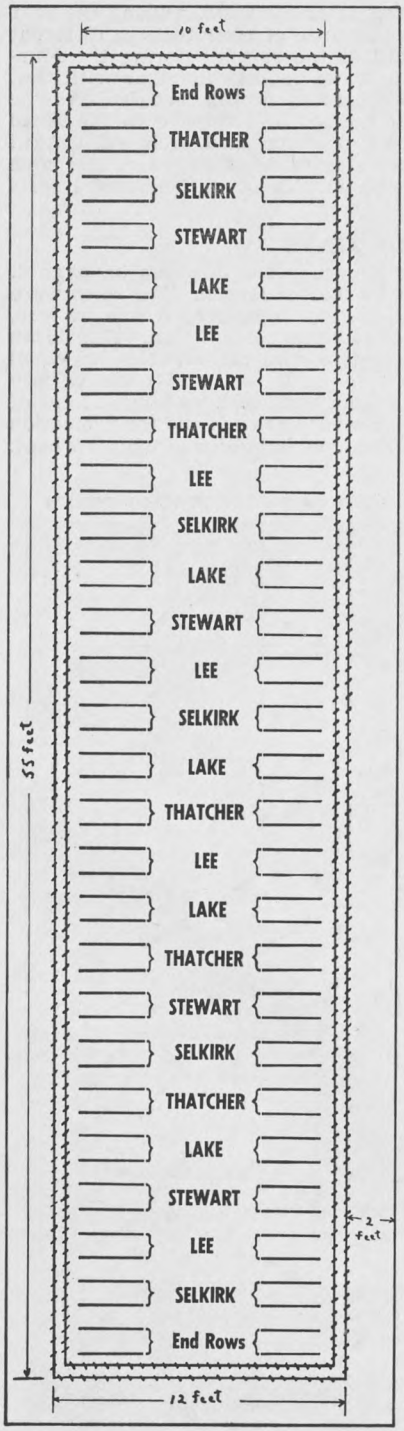
complete instructions for seeding and looking after the tests. During the year supervisors were asked to report on the appearance of their tests at different stages of growth and also to keep a record of the rainfall during the four-month growing season. The information in these reports together with that supplied by delegates was used in the preparation of this booklet. As the grain in each test ripened it was harvested, dried and shipped to the Head Office of the Wheat Pool in Regina where it was threshed, weighed, graded and yields calculated. A complete summary was made of each test and zone summaries were prepared by averaging the results of all successful tests within each Cereal Variety Zone.

DESCRIPTION OF TESTS

The plan of a typical wheat test is shown in the diagram on page 6. Each test consisted of a total of 54 rows 10 feet in length. The rows were spaced 12 inches apart. Two rows of each variety were seeded side by side, and the varieties were arranged in a "randomized block" plan. This is an approved scientific pattern which is designed to give all varieties an equal opportunity. Five varieties were included in each test and each variety appeared in five double rows (replicates) within each test, making a total of fifty test rows. In addition, a double row was seeded at each end for protection purposes. The whole test was surrounded by a double border of winter wheat.

MAP SHOWING LOCATION OF TESTS ACCORDING TO WHEAT POOL DISTRICTS





When harvesting, each pair of test rows was made into one sheaf and the 25 sheaves were threshed and weighed separately.

FACTS TO BE REMEMBERED IN READING AND STUDYING RESULTS

Growing conditions in Saskatchewan vary considerably from year to year and this factor has an important influence on varietal performance. Therefore, when comparing varieties it is advisable to consider their performance over a period of several years. For this reason, the section "Summarization According to Cereal Variety Zones" outlines yield results for a number of years where such results are available. In this section also frequent reference is made to the official recommendations of the Saskatchewan Advisory Council on Grain Crops. This Council meets in December of each year to consider the results of tests conducted over a period of years by the experimental Farms in Saskatchewan, the University of Saskatchewan and the Saskatchewan Wheat Pool. On the basis of these tests official recommendations are made concerning the best varieties to be grown the following year. These recommendations are published in the pamphlet "Varieties of Grain Crops for Saskatchewan 1957." Copies of this pamphlet are distributed to elevator agents and are available on request from any Experimental Farm in the province, the University of Saskatchewan, the Saskatchewan Department of Agriculture or the Saskatchewan Wheat Pool.

Necessary Difference

"Necessary difference" is calculated by applying an approved statistical formula to the yield results of each individual test. The result of the calculation is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

PLAN OF WHEAT TEST

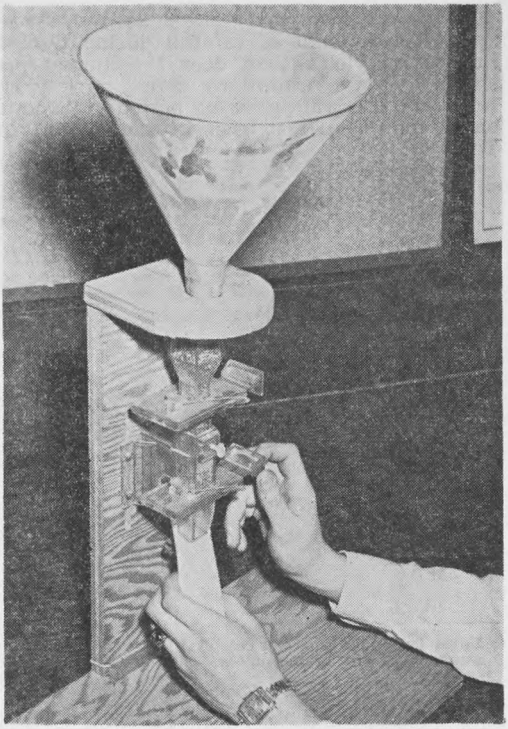
The crossed lines represent border rows of winter wheat. A two-foot pathway was left between the winter wheat border and the surrounding field crop. The barley and durum tests were laid out in a similar manner. Five randomizations, or varietal arrangements, were used in seeding the tests. One of the five randomizations is shown in the above plan.

Straw Strength

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

Neck Strength

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2 or 3, where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength, and 3 indicated weakness in the neck.



This seed dispenser is used to measure the amount of seed used in each row of a variety test.

Results of Individual Tests

The results of individual tests appear in the following tables: Wheat, No. 25; Barley, No. 51; Durum wheat, No. 64. These results are arranged according to Wheat Pool districts (illustrated on page 5), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to several causes such as differences in soil type, climatic conditions and date of seeding.

Summary by Cereal Variety Zones

The individual tests were grouped for analysis on the basis of cereal variety zones. These zones are illustrated on pages 44 and 45. Each zone represents an area in which conditions influencing plant growth are generally similar. While local conditions may vary considerably within the zone, in general the average yield results can be considered to represent the performance of the varieties for that zone.

Grading Remarks

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain.

The following abbreviations have been used to indicate the various defects.

Bl.—Bleached
B.P.—Black Point
D.—Discolored
D.G.—Dark Green
E.—Ergot
F.—Frosted
G.—Green
H.—Heated
I.—Immature
St.—Starchy
W.—Weather Stained

RAINFALL

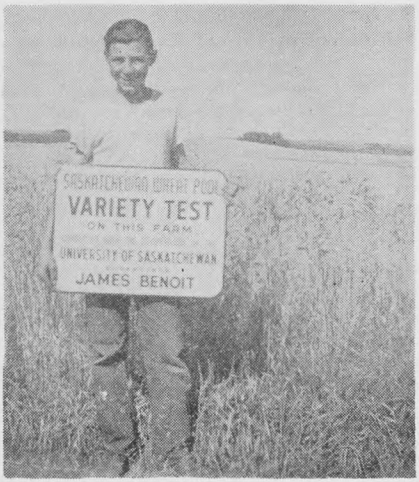
The amount of rainfull during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by cereal variety zones for the four months which represent the grain growing period in Saskatchewan. Rainfall is also reported on an individual test basis in the section "Individual Summarized Results of Tests."

TABLE No. 1.—AVERAGE MONTHLY RAINFALL IN INCHES DURING THE PERIOD MAY-AUGUST SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	May	June	July	August	Total
1A	1.19	2.95	2.07	1.04	7.25
1B	.79	3.82	1.84	.84	7.29
1C	1.66	2.36	1.18	1.49	6.69
1D	.27	4.59	2.07	1.25	8.18
2A	.86	3.28	2.71	.91	7.76
2B	.93	3.13	2.30	1.06	7.42
2C	1.02	3.95	2.56	.90	8.43
2D	.23	3.16	2.05	1.42	6.86
2E	.99	3.87	3.01	.35	8.22
3A	1.52	2.84	3.20	1.67	9.23
3B	1.15	3.65	2.43	2.77	10.00
3C	1.46	3.39	2.63	2.06	9.54
3D	.73	3.18	2.88	1.14	7.93
3E	1.24	5.13	3.13	1.37	10.87
3F	.88	3.39	2.76	2.04	9.07
3G	.45	2.42	2.52	1.76	7.15
3H	1.19	3.35	2.41	3.00	9.95
3J	.82	2.46	2.12	1.88	7.28
4A	1.52	3.14	3.15	2.34	10.15
4B	1.26	2.69	3.01	2.57	9.53

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.

Alfred Nienaber of St. Gregor filling out the final progress report on his wheat test.



James Benoit standing beside his wheat test at Court.

WHEAT TESTS

A total of 168 wheat tests were included in the 1956 testing project. Thatcher, Lake and Stewart were included in tests throughout the province. Rescue and Chinook appeared in tests located in the west, south-west and west-central areas. This included Cereal Variety Zones 1A to 2D inclusive, with the exception of 2A. They were replaced by Selkirk and Lee in zones 2A and 2E to 4B inclusive. For the location of these zones see the map on page 45.

DESCRIPTION OF VARIETIES

NOTE—For a report on the official recommendations and the yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" beginning on page 13.

Thatcher is still the most widely grown wheat variety in Saskatchewan and it is included in these tests as a standard of comparison. It was developed from a cross between (Marquis X Iumillo) X (Marquis X Kanred) made in 1921 at the University of Minnesota. Thatcher is drought resistant, high yielding and high in milling and baking quality. It is resistant to shattering and to spring frost damage, but susceptible to bleaching. It is resistant to loose smut, moderately resistant to common rootrot, but susceptible to leaf rust, to race 15B of stem rust and to covered smut.

Lake—This variety was developed by the Scott Experimental Farm from the cross Regent X Canus and was licensed for commercial distribution in 1954. It has medium long, strong straw and is later in maturity than Thatcher. Lake is resistant to drought, lodging and sprouting. It is less resistant to shattering than Thatcher. It is resistant to covered smut, but susceptible to loose smut, to race 15B of stem rust and to leaf rust.

Stewart is a durum variety included in these tests for comparison with the bread wheats. It was developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. Stewart is a high quality durum variety which has long, medium strong straw and is late in maturity. It is resistant to leaf rust, moderately susceptible to loose and covered smut and very susceptible to race 15B of stem rust.

Rescue was developed by the Central Experimental Farm, Ottawa and the Swift Current Experimental Farm from a cross between Apex and a solid stemmed wheat. Because of its solid straw it has considerable resistance to sawfly damage. It is slightly later in maturity than Thatcher and has slightly weaker straw. It has less tendency to bleach, but is susceptible to spring frost. Rescue is lower in milling and baking quality than Thatcher and Chinook. It is susceptible to race 15B of stem rust, to leaf rust and to loose and covered smut. It is moderately resistant to common rootrot.

Chinook—This variety was developed at the Central Experimental Farm, Ottawa, from a cross between Thatcher and a solid stemmed wheat. It is resistant to sawfly damage and is higher in milling and baking quality than Rescue. Compared with Thatcher, Chinook has taller, weaker straw, but is equal in maturity. Chinook has high bushel weight, is susceptible to leaf rust and race 15B of stem rust, moderately susceptible to loose and covered smut and moderately resistant to common rootrot.

Selkirk was produced at the Laboratory of Cereal Breeding, Winnipeg from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed in 1953. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering, but more resistant to bleaching. Selkirk is resistant to loose and covered smut and moderately resistant to leaf rust.

Lee is a bearded bread wheat developed by the University of Minnesota from the cross Hope X Timstein. Compared to Thatcher it has shorter, slightly weaker straw, is later maturing and has less tendency to bleach. Lee is

resistant to leaf rust and moderately resistant to common rootrot, but is susceptible to race 15B of stem rust and to loose and covered smut.

PERFORMANCE OF VARIETIES

Although there was a fair reserve of subsoil moisture in the spring of 1956, the surface soil in many areas was so dry that some grain did not germinate until rain came. In some cases this occurred two to three weeks after the grain was seeded. As a result some tests contained essentially two crops, one of which matured considerably earlier than the other. In mid-August freezing temperatures occurred in many parts of the province and caused severe damage to late crops. While the reduction in yield was not serious, grades were lowered considerably in those areas most affected by the frost.

Marvin Rabe of Vidora smiles proudly from between the rows of his test.

TABLE No. 2.—AVERAGE YIELDS IN BUSHELS PER ACRE SUMMARIZED BY CEREAL VARIETY ZONES

Cereal** Variety Zone	No. of Satisfactory Tests	Thatcher	Lake	Stewart	Rescue	Chinook	Selkirk	Lee	Necessary Difference* in Bushels
1A	14	36.6	30.9	36.1	32.9	32.1	—	—	1.30
1B	4	31.5	24.9	27.9	30.9	27.8	—	—	2.06
1C	9	31.8	31.2	30.3	31.0	30.6	—	—	1.09
1D	6	28.8	26.6	30.3	27.6	24.6	—	—	1.62
2A	8	31.5	30.1	31.9	—	—	29.6	26.0	1.96
2B	6	39.8	32.9	41.5	36.2	31.5	—	—	2.46
2D	17	34.3	30.9	29.8	31.5	28.6	—	—	1.24
3A	5	44.5	42.5	52.6	—	—	46.5	39.6	2.69
3B	4	42.0	41.8	40.7	—	—	44.9	36.8	3.40
3C	13	50.9	46.7	46.9	—	—	51.4	44.0	1.89
3D	9	48.0	43.1	35.8	—	—	47.7	40.3	1.80
3E	8	43.3	42.3	42.9	—	—	44.5	39.0	1.96
3F	5	39.3	36.8	29.7	—	—	38.5	34.0	2.15
3G	2	31.3	29.5	29.1	—	—	34.9	24.8	N.S.
3J	3	37.7	34.4	33.7	—	—	36.1	30.3	2.75
4A	4	46.1	43.4	29.3	—	—	48.8	38.6	2.68
4B	7	33.8	34.0	31.1	—	—	36.1	28.3	1.58

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of this difference Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group.

N.S.=No significant grain yield difference between varieties.

**See zone map, page 45.

Table No. 2. Zones 1A to 2D (except 2A). **Thatcher** placed first in four of these six zones and placed second in the remaining two. **Rescue** placed second in two of these zones and placed third in the remaining four. The placing of **Stewart** varied considerably from one zone to another. On an average basis **Lake** placed fourth, although it was second in Zone 1C. **Chinook** was outyielded by the other varieties in three of these zones and it placed fourth in three other zones.

Zones 2E to 4B (including 2A). In this area, on an average basis **Selkirk** outyielded the other four varieties tested. It placed first in six of the eleven zones. **Thatcher** placed second on an average basis. **Lake** and **Stewart** placed third and fourth respectively on an average basis, but there was considerable variation from zone to zone. **Lee** was generally outyielded by the other varieties, placing fifth in eight of the eleven zones.

TABLE No. 3—AVERAGE NUMBER OF DAYS FROM SEEDING TO RIPENING SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Lake	Stewart	Rescue	Chinook	Selkirk	Lee
1A	99.3	99.5	104.4	100.0	100.0	—	—
1B	105.0	105.5	107.5	104.0	106.5	—	—
1C	104.2	104.8	108.3	104.3	103.7	—	—
1D	109.5	114.0	117.0	109.5	111.5	—	—
2A	99.5	104.5	107.0	—	—	99.3	102.8
2B	111.2	112.0	113.2	110.3	110.7	—	—
2D	99.8	101.9	106.0	101.7	101.4	—	—
2E	108.0	108.0	109.0	—	—	107.0	107.0
3A	101.0	102.3	105.8	—	—	100.3	101.3
3C	105.1	108.5	115.3	—	—	104.4	107.4
3D	106.3	109.7	114.0	—	—	104.2	108.7
3E	109.7	110.7	114.0	—	—	109.7	112.3
3F	105.2	107.6	110.8	—	—	102.6	107.6
3G	120.0	118.0	127.0	—	—	116.0	123.0
3J	107.5	111.0	112.5	—	—	107.0	107.5
4A	103.0	105.0	109.0	—	—	102.7	105.0
4B	103.7	106.7	110.3	—	—	101.3	104.3

Table No. 3. Zones 1A to 2D (except 2A). On an average basis these five varieties ripened in the following order: **Thatcher, Rescue, Chinook, Lake, Stewart.** The differences between the first three varieties were only slight, but Lake and Stewart were somewhat later.

Zones 2E to 4B (including 2A). **Selkirk** placed first in nine of the zones in this area and tied for first in the remaining two. It was followed by **Thatcher** and **Lee** in that order. **Lake** placed fourth on an average basis and **Stewart** was latest maturing in all the zones.

TABLE No. 4.—AVERAGE HEIGHT OF PLANTS IN INCHES SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Lake	Stewart	Rescue	Chinook	Selkirk	Lee
1A	32.5	34.4	38.7	33.5	33.4	—	—
1B	34.0	33.5	38.0	34.5	34.0	—	—
1C	28.6	30.0	33.1	28.9	29.0	—	—
1D	31.5	34.5	43.3	32.5	32.3	—	—
2A	33.4	36.0	41.6	—	—	33.2	31.4
2B	32.7	35.4	42.3	34.6	34.0	—	—
2C	30.0	32.0	39.0	31.0	32.0	—	—
2D	34.2	37.3	43.3	36.3	36.5	—	—
2E	36.0	38.0	47.0	—	—	36.0	30.0
3A	36.8	40.4	46.2	—	—	36.8	36.2
3B	37.3	40.5	49.3	—	—	36.3	36.5
3C	42.6	43.8	55.9	—	—	42.5	41.0
3D	38.7	41.8	51.0	—	—	38.6	38.3
3E	37.5	40.5	50.3	—	—	39.0	37.5
3F	37.3	39.8	50.5	—	—	35.3	35.8
3G	39.0	41.3	49.3	—	—	37.3	40.0
3J	38.0	40.0	47.3	—	—	38.3	38.3
4A	37.7	42.3	51.7	—	—	37.3	39.7
4B	35.5	36.7	46.3	—	—	34.7	31.2

Table No. 4. Zones 1A to 2D (except 2A). **Stewart** was the tallest of the varieties tested in all these zones. **Lake** placed second in all but one zone. On an average basis **Rescue** placed third in height and **Chinook** fourth. **Thatcher** placed fifth in six of the zones in this area.

Zones 2E to 4B (including 2A). In all these zones **Stewart** was taller than the other four varieties tested, and **Lake** placed second. On an average basis **Thatcher** placed third and **Selkirk** placed fourth. The placing of Lee varied somewhat from zone to zone, but on an average basis it was shorter than the other four varieties tested.

TABLE No. 5.—AVERAGE STRAW STRENGTH OF PLANTS ON THE BASIS 1 (Strong) to 9 (Weak) SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Lake	Stewart	Rescue	Chinook	Selkirk	Lee
1A	2.4	1.6	3.2	2.9	2.9	—	—
1B	5.1	2.8	3.5	4.7	3.5	—	—
1C	2.8	1.9	1.8	1.6	2.1	—	—
1D	1.4	1.3	3.1	1.4	1.7	—	—
2A	2.0	1.9	2.2	—	—	1.5	2.8
2B	3.7	2.6	3.7	3.6	4.0	—	—
2C	8.0	9.0	7.0	8.0	9.0	—	—
2D	2.8	2.9	3.0	3.0	3.2	—	—
2E	2.4	2.6	3.8	—	—	3.0	3.0
3A	2.7	2.7	4.3	—	—	1.7	3.1
3B	2.3	2.6	3.9	—	—	2.0	3.5
3C	2.2	2.8	4.8	—	—	2.2	3.4
3D	1.8	2.3	3.8	—	—	1.9	2.4
3E	1.8	1.6	2.4	—	—	1.4	1.9
3F	1.8	2.3	3.9	—	—	2.4	2.6
3G	1.7	1.7	5.6	—	—	1.5	1.8
3J	1.9	2.4	4.2	—	—	1.5	2.7
4A	1.5	2.8	2.5	—	—	1.3	4.9
4B	1.6	3.7	3.9	—	—	1.9	1.9

Table No. 5. Zones 1A to 2D (except 2A). The placing of these five varieties varied so much from zone to zone that no single statement can be made to cover all the area. A comparison can only be made on an individual zone basis. No serious weakness of straw was evident in any of the varieties tested.

Zones 2E to 4B (including 2A). In this area the placing of the varieties was more consistent. On an average basis **Selkirk** had stronger straw than the other four varieties tested. **Thatcher** placed second, followed by **Lake, Lee** and **Stewart** in that order. Stewart was the only variety which showed any significant straw weakness.

TABLE No. 6.—AVERAGE WEIGHT PER MEASURED BUSHEL SUMMARIZED BY CEREAL VARIETY ZONES

Cereal Variety Zone	Thatcher	Lake	Stewart	Rescue	Chinook	Selkirk	Lee
1A	62.7	62.1	64.3	62.9	63.4	—	—
1B	61.3	59.5	63.5	61.3	63.0	—	—
1C	61.5	61.2	64.8	62.4	63.4	—	—
1D	62.1	61.1	62.3	62.1	63.0	—	—
2A	62.2	61.3	64.4	—	—	60.9	61.3
2B	61.5	60.6	63.1	61.4	61.6	—	—
2C	63.0	62.0	64.0	63.0	64.0	—	—
2D	61.8	60.5	61.8	62.0	62.4	—	—
2E	61.0	59.0	60.0	—	—	64.0	61.0
3A	62.7	62.2	64.5	—	—	61.2	62.5
3B	61.2	60.6	60.8	—	—	61.2	60.0
3C	61.9	60.5	60.5	—	—	61.8	60.3
3D	61.4	59.5	59.8	—	—	60.7	59.2
3E	62.6	62.1	63.6	—	—	62.3	60.9
3F	59.6	57.2	58.0	—	—	59.8	57.0
3G	59.0	55.0	56.0	—	—	57.3	56.3
3H	60.0	58.0	59.0	—	—	57.0	56.0
3J	62.0	60.0	61.0	—	—	61.3	58.7
4A	59.0	57.0	54.0	—	—	59.0	57.3
4B	59.0	57.0	60.6	—	—	58.9	57.4

Table No. 6. Zones 1A to 2D (except 2A). On an average basis **Stewart** had the highest bushel weight of the varieties tested. **Chinook** placed second. **Rescue** and **Thatcher** were quite similar in bushel weight. **Lake** was consistently lower than the other varieties tested.

Zones 2E to 4B, (including 2A). In this area, on an average basis **Thatcher** showed the highest bushel weight, followed by **Selkirk.** On an average basis **Stewart** placed third. **Lake** placed fourth and **Lee** placed fifth. These general statements must be qualified to some extent because individual zones vary from this placing. This may be due to frost damage in some areas which would reduce the bushel weight generally, but would have a greater effect on the later maturing varieties.

TABLE No. 7.—PERCENTAGE OF COMMERCIAL GRADES BY VARIETIES

(ZONES 1A to 2D, except 2A)

Variety	1 Nor.	2 Nor.	3 Nor.	4 Nor.	No. 5	No. 6	Feed
	%	%	%	%	%	%	
Thatcher	14.9	22.4	19.4	20.9	13.4	7.5	1.5
Lake	—	23.9	25.3	13.4	25.4	7.5	4.5
Stewart	—	—	—	—	—	—	1.5
Rescue	22.4	14.9	17.9	23.9	13.4	7.5	—
Chinook	25.3	19.4	14.9	20.9	10.5	9.0	—

Variety	1 C.W.	2 C.W.	3 C.W.	Extra 4 C.W.	4 C.W.	5 C.W.	6 C.W.
	%	%	%	%	%	%	%
Thatcher	—	—	—	—	—	—	—
Lake	—	—	—	—	—	—	—
Stewart	14.9	13.4	11.9	1.5	29.9	17.9	9.0
Rescue	—	—	—	—	—	—	—
Chinook	—	—	—	—	—	—	—

(ZONES 2E to 4B, including 2A)

Variety	1 Nor.	2 Nor.	3 Nor.	4 Nor.	No. 5	No. 6	Feed
	%	%	%	%	%	%	%
Thatcher	1.3	9.2	15.8	22.4	19.7	26.3	5.3
Lake	—	1.3	13.2	19.7	23.7	19.7	22.4
Stewart	—	—	—	—	—	—	18.4
Selkirk	—	1.3	17.1	35.5	17.1	23.7	5.3
Lee	1.3	—	6.6	18.4	26.3	23.7	23.7

Variety	1 C.W.	2 C.W.	3 C.W.	Extra 4 C.W.	4 C.W.	5 C.W.	6 C.W.
	%	%	%	%	%	%	%
Thatcher	—	—	—	—	—	—	—
Lake	—	—	—	—	—	—	—
Stewart	2.6	1.3	9.2	3.9	22.4	19.8	22.4
Selkirk	—	—	—	—	—	—	—
Lee	—	—	—	—	—	—	—

Table No. 7. Zones 1A to 2D (except 2A). The extent of frost damage shows up in the grades as well as in the bushel weight which was discussed above. In all varieties a fairly substantial percentage of the samples graded below No. 4 Northern. Eighty-one percent of the samples of **Chinook** placed in the milling grades, (that is, No. 4 Northern or higher). **Rescue** and **Thatcher** were nearly as high with 79% and 78% respectively. **Lake** had 63% in these grades. The durum variety **Stewart** cannot be compared directly with the bread wheats, but the effect of frost is evident in the substantial quantities included in the lower durum grades.

Zones 2E to 4B (including 2A). The effect of frost is evident in this area also and as would be expected the damage was more severe than in the more southerly zones. **Thatcher** and **Selkirk** graded almost equally well. Fifty-four percent of the samples of Selkirk and 49% of the Thatcher samples were included in the milling grades (1 Northern to 4 Northern). Thirty-four percent of the **Lake** samples fell in these grades, but only 26% of the **Lee** samples were eligible. **Stewart** also showed considerable frost damage and only 13% of the samples placed in the top three durum grades.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

In some areas of this province growing conditions vary considerably within short distances and these variations may affect the performance of varieties. For this reason it is advisable to compare the results of a number of tests carried on in the same general area rather than to rely entirely on the results of a single test. With this in mind these tests have been grouped according to cereal variety zones and average results are reported for each zone. The zone boundaries are determined by conditions of soil and climate which affect crop growth. In general the average results for a zone will be more reliable than those of a single test within that zone. However, in some cases local variations may occur within these zones.

Saskatchewan is noted for the wide differences in growing conditions from year to year and these variations have a substantial effect on the per-

formance of grain varieties. An attempt has been made, in reporting the results for each zone, to include some information on yield performance during previous years, where this information is available.

The report on each zone also refers to the varieties officially recommended by the Saskatchewan Advisory Council on Grain Crops. These recommendations are based on the results of tests carried on over a period of years.

Table No. 8—Summarized Results for Zone 1A

(14 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	36.6	30.9	36.1	32.9	32.1
Days from seeding to ripening	99.3	99.5	104.4	100.0	100.0
Height of plants in inches	32.5	34.4	38.7	33.5	33.4
Straw Strength (maximum of 1)	2.4	1.6	3.2	2.9	2.9
Bushel weight in pounds	62.7	62.1	64.3	62.9	63.4
Commercial grades in percentage: 1 Nor	22.2	—	—	38.9	38.9
2 Nor	27.8	44.4	—	11.1	11.1
3 Nor	16.6	16.7	—	16.6	22.2
4 Nor	27.8	22.2	—	27.8	22.2
No. 5	—	11.1	—	—	—
No. 6	—	—	—	5.6	5.6
Feed	5.6	5.6	—	—	—
1 C.W.	—	—	27.7	—	—
2 C.W.	—	—	27.7	—	—
4 C.W.	—	—	33.4	—	—
5 C.W.	—	—	5.6	—	—
6 C.W.	—	—	5.6	—	—

Necessary difference 1.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Thatcher outyielded the other four varieties tested in this zone in 1956. It has consistently performed well in this zone with the exception of the two years, 1954 and 1955, and is officially recommended.

Stewart placed second in this zone in 1956 and it placed first in the previous year. It is very susceptible to stem rust, but this is not a particularly serious handicap in this area. Stewart is officially recommended for Zone 1A.

Rescue placed third in 1956 and has given a somewhat varied performance in this zone during recent years. It has never produced outstanding results and is not officially recommended.

Chinook placed fourth in yield in 1956 and has placed third or fourth in each of a number of previous years. However, it is resistant to sawfly damage and is higher in milling and baking quality than is Rescue. For these reasons it is officially recommended for the zone.

Lake placed fifth in this zone in 1956. It is later maturing than most of the other varieties tested and is not recommended.

Table No. 9—Summarized Results for Zone 1B

(4 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	31.5	24.9	27.9	30.9	27.8
Days from seeding to ripening	105.0	105.5	107.5	104.0	106.5
Height of plants in inches	34.0	33.5	38.0	34.5	34.0
Straw strength (maximum of 1)	5.1	2.8	3.5	4.7	3.5
Bushel weight in pounds	61.3	59.5	63.5	61.3	63.0
Commercial grades in percentage: 1 Nor	25.0	—	—	25.0	25.0
2 Nor	—	25.0	—	25.0	25.0
3 Nor	25.0	—	—	—	—
4 Nor	25.0	—	—	25.0	25.0
No. 5	25.0	75.0	—	25.0	25.0
2 C.W.	—	—	25.0	—	—
3 C.W.	—	—	25.0	—	—
4 C.W.	—	—	25.0	—	—
5 C.W.	—	—	25.0	—	—

Necessary difference—2.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Thatcher placed first in this zone in 1956 and has performed well in this area over a considerable period of time. It is officially recommended.

Rescue placed second and has generally been outyielded by Thatcher in this area. It is officially recommended for sawfly control only.

Stewart placed third in yield in 1956 and was the top yielding variety in the previous year. It is officially recommended for this zone.

Chinook placed fourth in the year under review, but has ranked first or second in this area for a number of years. Because of its sawfly resistance and its high milling and baking quality it is officially recommended for this zone.

Lake was outyielded by the other four varieties tested in 1956 and is not recommended.

Barry Raymond of Aneroid is checking the development of his durum wheat test.

Table No. 10—Summarized Results for Zone 1C

(9 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	31.8	31.2	30.3	31.0	30.6
Days from seeding to ripening	104.2	104.8	108.3	104.3	103.7
Height of plants in inches	28.6	30.0	33.1	28.9	29.0
Straw strength (maximum of 1)	2.8	1.9	1.8	1.6	2.1
Bushel weight in pounds	61.5	61.2	64.8	62.4	63.4
Commercial grades in percentage: 1 Nor	—	—	—	18.2	27.3
2 Nor	27.3	18.2	—	18.2	27.3
3 Nor	45.4	54.5	—	36.3	27.3
4 Nor	9.1	—	—	18.2	9.1
No. 5	9.1	18.2	—	9.1	9.0
No. 6	9.1	9.1	—	—	—
1 C.W.	—	—	18.2	—	—
2 C.W.	—	—	9.0	—	—
3 C.W.	—	—	27.3	—	—
4 C.W.	—	—	27.3	—	—
5 C.W.	—	—	18.2	—	—

Necessary difference—1.1 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Thatcher outyielded the other varieties tested by a narrow margin in 1956. It appears to be well adapted to this area and is officially recommended for the zone.

Lake placed second in both 1955 and 1956 but placed fifth in 1954. It is not officially recommended for the zone.

Rescue placed third in the year under review, outyielding **Chinook** by a small margin. However, during two previous years testing the placing of

these two varieties was reversed. Because of its generally better yielding ability in this zone and its higher milling and baking quality, Chinook is officially recommended in preference to Rescue.

Stewart was outyielded by the other varieties by a narrow margin in 1956. However, in the previous year it placed first of the five varieties tested. It has also performed well in other tests and is recommended for the zone.

Table No. 11—Summarized Results for Zone 1D

(6 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	28.8	26.6	30.3	27.6	24.6
Days from seeding to ripening	109.5	114.0	117.0	109.5	111.5
Height of plants in inches	31.5	34.5	43.3	32.5	32.3
Straw strength (maximum of 1)	1.4	1.3	3.1	1.4	1.7
Bushel weight in pounds	62.1	61.1	62.3	62.1	63.0
Commercial grades in percentage: 1 Nor.	25.0	—	—	12.5	25.0
2 Nor.	12.5	12.5	—	25.0	12.5
3 Nor.	12.5	25.0	—	—	12.5
4 Nor.	12.5	12.5	—	25.0	12.5
No. 5	12.5	25.0	—	12.5	12.5
No. 6	25.0	12.5	—	25.0	25.0
Feed	—	12.5	12.5	—	—
1 C.W.	—	—	12.5	—	—
Ex. 4 C.W.	—	—	12.5	—	—
4 C.W.	—	—	25.0	—	—
5 C.W.	—	—	25.0	—	—
6 C.W.	—	—	12.5	—	—

Necessary difference—1.6 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Stewart placed first in this zone in each of the last two years and is officially recommended for the zone.

Thatcher placed second in this zone where, except for the rust year of 1954, it has performed well for a number of years. It is officially recommended.

Rescue placed third in this zone in 1956. It usually yields less than Thatcher in this zone and it is recommended only where necessary for sawfly control.

Lake placed fourth in 1956, although it placed second in the previous year. In other tests it has performed well in this zone for a number of years, and is officially recommended.

Chinook was outyielded by the other four varieties tested in 1956. It placed third in 1954 and fifth in 1953. It does not appear particularly adapted to this zone and is not recommended.

Table No. 12—Summarized Results for Zone 2A

(8 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	31.5	30.1	31.9	29.6	26.0
Days from seeding to ripening	99.5	104.5	107.0	99.3	102.8
Height of plants in inches	33.4	36.0	41.6	33.2	31.4
Straw strength (maximum of 1)	2.0	1.9	2.2	1.5	2.8
Bushel weight in pounds	62.2	61.3	64.4	60.9	61.3
Commercial grades in percentage: 1 Nor.	11.2	—	—	—	11.2
2 Nor.	33.3	11.2	—	11.2	—
3 Nor.	11.1	33.3	—	33.3	33.3
4 Nor.	—	11.1	—	11.1	11.1
No. 5	33.3	33.3	—	33.3	33.3
No. 6	11.1	—	—	11.1	—
Feed	—	11.1	—	—	11.1
1 C.W.	—	—	22.2	—	—
3 C.W.	—	—	11.1	—	—
4 C.W.	—	—	33.3	—	—
5 C.W.	—	—	22.3	—	—
6 C.W.	—	—	11.1	—	—

Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Stewart outyielded the other four varieties tested in 1956. However, this zone is frequently subject to stem rust and because of Stewart's susceptibility to this disease, it is not recommended.

Thatcher placed second in this zone in 1956, but in the two previous years it placed fifth of the five varieties tested. Because of its susceptibility to rust it is not recommended for this zone.

Lake placed third in 1956, but like Stewart and Thatcher it is susceptible to rust and so is not recommended for this zone.

Selkirk placed fourth in this zone in 1956, but in previous years when rust appeared it performed relatively better. Selkirk is the only licensed rust resistant variety available, so it is the only one recommended for this zone.

Lee was outyielded by the other four varieties tested this year. Because of its susceptibility to stem rust and to loose smut, it was removed from the recommendations for 1957.

Marlene Wernicke demonstrates the proper way to prepare sheaves for drying.

Table No. 13—Summarized Results for Zone 2B

(6 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	39.8	32.9	41.5	36.2	31.5
Days from seeding to ripening	111.2	112.0	113.2	110.3	110.7
Height of plants in inches	32.7	35.4	42.3	34.6	34.0
Straw strength (maximum of 1)	3.7	2.6	3.7	3.6	4.0
Bushel weight in pounds	61.5	60.6	63.1	61.4	61.6
Commercial grades in percentage: 2 Nor	37.5	—	—	25.0	37.5
3 Nor	—	37.5	—	12.5	—
4 Nor	25.0	12.5	—	25.0	25.0
No. 5	25.0	25.0	—	25.0	12.5
No. 6	12.5	12.5	—	12.5	25.0
Feed	—	12.5	—	—	—
2 C.W.	—	—	12.5	—	—
3 C.W.	—	—	12.5	—	—
4 C.W.	—	—	25.0	—	—
5 C.W.	—	—	25.0	—	—
6 C.W.	—	—	25.0	—	—

Necessary difference—2.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Stewart outyielded the other varieties tested in 1956. It placed first in the previous year as well and is officially recommended.

Thatcher placed second in 1956. Its yield was reduced by rust in 1954 and 1955, but prior to that it performed well in this zone and it is officially recommended.

Rescue placed third, outyielding **Chinook** by a fair margin. However, during some recent years the placing of these varieties was reversed. Because of the higher milling and baking quality of Chinook, it is recommended in preference to Rescue.

Lake placed fourth in yield in this zone in 1956. It placed second in both 1954 and 1955 in Zone 2B but because much of this zone is subject to rust damage it is not officially recommended.

Cereal Variety Zone 2C

No successful tests were conducted in this small zone in 1956. The recommended varieties are Rescue (for sawfly control only) and Thatcher.

Wheat Pool delegate, Joe Olafson, and agent, Jim Moir, are paying a visit to Robert Hamilton's wheat test at Leroy.

Table No. 14—Summarized Results for Zone 2D

(17 satisfactory tests)

	Thatcher	Lake	Stewart	Rescue	Chinook
Yield in bushels per acre	34.3	30.9	29.8	31.5	28.6
Days from seeding to ripening	99.8	101.9	106.0	101.7	101.4
Height of plants in inches	34.2	37.3	43.3	36.3	36.5
Straw strength (maximum of 1)	2.8	2.9	3.0	3.0	3.2
Bushel weight in pounds	61.8	60.5	61.8	62.0	62.4
Commercial grades in percentage: 1 Nor.	11.8	—	—	17.7	17.6
2 Nor.	17.6	17.6	—	5.9	17.6
3 Nor.	17.6	17.6	—	23.5	11.8
4 Nor.	23.5	17.6	—	23.5	29.4
No. 5	23.5	35.3	—	23.5	17.6
No. 6	6.0	11.9	—	5.9	6.0
1 C.W.	—	—	5.9	—	—
2 C.W.	—	—	5.9	—	—
3 C.W.	—	—	17.6	—	—
4 C.W.	—	—	35.3	—	—
5 C.W.	—	—	23.5	—	—
6 C.W.	—	—	11.8	—	—

Necessary difference—1.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Thatcher placed first in yield in 1956. With the exception of the unusual rust year 1954 Thatcher has consistently yielded well in this area and it is officially recommended.

Rescue placed second in 1956. It has produced a variable performance in this zone during recent years and because of its lower milling and baking quality when compared to Chinook, it is not recommended.

Lake placed third in this zone in 1956 and has performed well in this area for several years. It is officially recommended.

Stewart placed fourth in 1956, but ranked first in this zone in the previous year. It has performed well in other tests and is recommended for the zone.

Chinook placed fifth in this zone in 1956. Because of its sawfly resistance, it is a special purpose variety. In Wheat Pool tests in 1953 it outyielded Rescue and in 1954 it was slightly lower in yield. Chinook is superior to Rescue in milling and baking quality, so it is recommended for this zone in preference to Rescue.

Cereal Variety Zone 2E

Only one successful test was located in this zone in 1956. It was conducted by Lloyd Jensen, Pense and can be found in the section "Individual Summarized Results of All Tests—Wheat" on page 29.

Selkirk is the only wheat variety recommended for Zone 2E.

Table No. 15—Summarized Results for Zone 3A
(5 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	44.5	42.5	52.6	46.5	39.6
Days from seeding to ripening	101.0	102.3	105.8	100.3	101.3
Plant height in inches	36.8	40.4	46.2	36.8	36.2
Straw strength (maximum of 1)	2.7	2.7	4.3	1.7	3.1
Bushel weight in pounds	62.7	62.2	64.5	61.2	62.5
Commercial grades in percentage: 2 Nor.	16.7	—	—	—	—
3 Nor.	33.3	16.7	—	16.7	—
4 Nor.	50.0	66.6	—	83.3	66.7
No. 5	—	16.7	—	—	33.3
3 C.W.	—	—	33.3	—	—
4 C.W.	—	—	66.7	—	—

Necessary difference—2.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Stewart placed first in this zone in 1956, followed by **Selkirk.** Because of its rust susceptibility Stewart cannot be recommended for this zone. Selkirk is the only recommended variety.

Thatcher and **Lake** placed third and fourth respectively, but like Stewart, their susceptibility to rust makes them hazardous to grow in this area.

Lee placed fifth of the five varieties tested in 1956. While it yielded relatively well in this zone under leaf rust conditions, it has been generally outyielded by other varieties under rust free conditions. Because of its susceptibility to stem rust and loose smut, it was removed from the recommendations for 1957.

Table No. 16—Summarized Results for Zone 3B
(4 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	42.0	41.8	40.7	44.9	36.8
Days from seeding to ripening	—	—	—	—	—
Height of plants in inches	37.3	40.5	49.3	36.3	36.5
Straw strength (maximum of 1)	2.3	2.6	3.9	2.0	3.5
Bushel weight in pounds	61.2	60.6	60.8	61.2	60.0
Commercial grades in percentage: 3 Nor.	20.0	20.0	—	20.0	—
4 Nor.	40.0	20.0	—	40.0	20.0
No. 5	20.0	40.0	—	40.0	40.0
No. 6	20.0	20.0	—	—	40.0
3 C.W.	—	—	20.0	—	—
4 C.W.	—	—	20.0	—	—
5 C.W.	—	—	20.0	—	—
6 C.W.	—	—	40.0	—	—

Necessary difference—3.4 bushels.

YIELD PERFORMANCE IN RECENT YEARS—ZONE 3B

Selkirk outyielded the other four varieties tested in this zone in 1956. It appears well adapted to this area and is the only variety officially recommended.

Thatcher placed second in 1956, but due to the risk of rust in this area, it is not recommended.

Lake and **Stewart** placed third and fourth respectively. They were not tested in this zone during 1955, but due to the risk of rust in this area, they are not recommended.

Lee placed fifth in this zone in 1956. It placed first during the previous year, but during a number of years it was outyielded by Selkirk. Because of Lee's susceptibility to stem rust and to loose smut, it was removed from the recommendations for 1957.

Table No. 17—Summarized Results for Zone 3C
(13 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	50.9	46.7	46.9	51.4	44.0
Days from seeding to ripening	105.1	108.5	115.3	104.4	107.4
Plant height in inches	42.6	43.8	55.9	42.5	41.0
Straw strength (maximum of 1)	2.2	2.8	4.8	2.2	3.4
Bushel weight in pounds	61.9	60.5	60.5	61.8	60.3
Commercial grades in percentage: 2 Nor.	15.4	—	—	—	—
3 Nor.	15.4	7.7	—	23.1	7.7
4 Nor.	30.8	38.5	—	46.2	30.8
No. 5	7.7	7.7	—	—	23.1
No. 6	23.0	15.4	—	30.7	15.3
Feed	7.7	30.7	30.8	—	23.1
2 C.W.	—	—	7.7	—	—
3 C.W.	—	—	7.7	—	—
4 C.W.	—	—	30.8	—	—
5 C.W.	—	—	15.3	—	—
6 C.W.	—	—	7.7	—	—

Necessary difference—1.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Selkirk has placed first or second in yield in this zone in each of the last four years. It appears well adapted to this area and is the only variety officially recommended for the zone.

Thatcher placed second in 1956 under rust free conditions, but during the previous three years it placed either fourth or fifth, due to the effect of rust. For this reason, it is not recommended.

Stewart placed third in this zone in 1956. It has not been tested by the Wheat Pool in this zone for a number of years, but due to its rust susceptibility it is not recommended.

Lake placed fourth in yield in each of the years 1955 and 1956. It is late maturing and rust susceptible and is not recommended for this zone.

Lee was outyielded by the other four varieties tested in 1956. In 1955 it placed first in yield, but during a number of years prior to that it was outyielded by Selkirk. Because of this and because of Lee's susceptibility to stem rust and loose smut it was removed from the recommendations for this zone for 1957.

Table No. 18—Summarized Results for Zone 3D
(9 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	48.0	43.1	35.8	47.7	40.3
Days from seeding to ripening	106.3	109.7	114.0	104.2	108.7
Plant height in inches	38.7	41.8	51.0	38.6	38.3
Straw strength (maximum of 1)	1.8	2.3	3.8	1.9	2.4
Bushel weight in pounds	61.4	59.5	59.8	60.7	59.2
Commercial grades in percentage: 2 Nor.	9.1	—	—	—	—
3 Nor.	18.2	18.2	—	18.2	9.0
4 Nor.	27.3	18.2	—	36.4	18.2
No. 5	—	18.2	—	—	18.2
No. 6	45.4	9.1	—	36.4	18.2
Feed	—	36.3	18.2	9.0	36.4
Ex. 4 C.W.	—	—	18.2	—	—
4 C.W.	—	—	27.3	—	—
5 C.W.	—	—	9.0	—	—
6 C.W.	—	—	27.3	—	—

Necessary difference—1.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Thatcher outyielded the other varieties tested in this zone in 1956. This zone is not often subject to rust damage and since Thatcher appears well adapted to the area it is officially recommended.

Selkirk placed second in 1956 and is recommended for the zone.

Lake placed third in this zone in 1956. While it is later maturing than the other recommended varieties, it is recommended for Zone 3D.

Lee placed fourth in this zone in 1956. It was removed from the official recommendations for this zone for 1957, due to its susceptibility to loose smut and stem rust.

Stewart was outyielded by the other varieties tested in 1956. Because of its late maturity it is not recommended for this zone.

Table No. 19—Summarized Results for Zone 3E

(8 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	43.3	42.3	42.9	44.5	39.0
Days from seeding to ripening	109.7	110.7	114.0	109.7	112.3
Plant height in inches	37.5	40.5	50.3	39.0	37.5
Straw strength (maximum of 1)	1.8	1.6	2.4	1.4	1.9
Bushel weight in pounds	62.6	62.1	63.6	62.3	60.9
Commercial grades in percentage: 3 Nor	37.5	12.5	—	25.0	—
4 Nor	25.0	25.0	—	37.5	12.5
No. 5	37.5	25.0	—	25.0	37.5
No. 6	—	37.5	—	12.5	50.0
3 C.W	—	—	12.5	—	—
Ex. 4 C.W	—	—	12.5	—	—
4 C.W	—	—	12.5	—	—
5 C.W	—	—	50.0	—	—
6 C.W	—	—	12.5	—	—

Necessary difference—2.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Selkirk outyielded the other varieties tested in this zone in 1956. It placed third in this area during each of the two previous years. Rust is not a normal hazard in this zone and Selkirk is not recommended.

Thatcher placed second in this zone in 1956. Except for the unusual year of 1954, Thatcher has consistently performed well in this zone and it is officially recommended.

Stewart placed third in 1956. It has not been tested by the Wheat Pool in recent years in this zone but its late maturity is a serious handicap in this area.

Lake placed fourth in yield in both 1954 and 1956. However, this can possibly be attributed to the effect of rust in 1954 and to frost in 1956. In some of its characteristics, Lake is well adapted to this zone and it is officially recommended.

Lee placed fifth in yield in 1956. It does not appear adapted to this area and is not recommended.

Table No. 20—Summarized Results for Zone 3F

(5 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	39.3	36.8	29.7	38.5	34.0
Days from seeding to ripening	105.2	107.6	110.8	102.6	107.6
Height of plants in inches	37.3	39.8	50.5	35.3	35.8
Straw strength (maximum of 1)	1.8	2.3	3.9	2.4	2.6
Bushel weight in pounds	59.6	57.2	58.0	59.8	57.0
Commercial grades in percentage: 4 Nor	—	—	—	20.0	—
No. 5	40.0	20.0	—	20.0	20.0
No. 6	60.0	40.0	—	60.0	60.0
Feed	—	40.0	20.0	—	20.0
6 C.W	—	—	80.0	—	—

Necessary difference—2.2 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Thatcher outyielded the other four varieties tested in this zone in 1956. It placed either first or second in three of the four previous years and is officially recommended for the zone.

Selkirk placed second in yield in 1956. Like Thatcher it has performed well in this zone for a number of years and is officially recommended.

Lake placed third in this zone in 1956. It has not produced outstanding results in this zone previously and because of its late maturity is not recommended.

Lee placed fourth in yield in 1956. It yielded well in 1955 in this zone, but in three previous years testing by the Wheat Pool it produced only fair results. It is not recommended.

Stewart was outyielded by the other four varieties tested in 1956. Because of its late maturity and the frost hazard in this zone it is not recommended.

Eugene Miskolczi standing beside the wheat test which he conducted at Prud'homme.

Table No. 21—Summarized Results for Zone 3G

(2 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	31.3	29.5	29.1	34.9	24.8
Days from seeding to ripening	120.0	118.0	127.0	116.0	123.0
Height of plants in inches	39.0	41.3	49.3	37.3	40.0
Straw strength (maximum of 1)	1.7	1.7	5.6	1.5	1.8
Bushel weight in pounds	59.0	55.0	56.0	57.3	56.3
Commercial grades in percentage: 3 Nor	33.4	33.4	—	33.4	—
4 Nor	33.3	—	—	33.3	33.4
No. 5	—	33.3	—	—	33.3
Feed	33.3	33.3	33.4	33.3	33.3
3 C.W	—	—	33.3	—	—
5 C.W	—	—	33.3	—	—

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

The borders of this zone were changed in 1954 and as a result only three years' comparable information is available.

Selkirk outyielded the other varieties tested in 1956. It placed second in 1954 and fourth in 1955. It is officially recommended.

Thatcher placed second in yield in this zone in both 1955 and 1956. In 1954 it placed fourth due to rust damage, but this is an unusual occurrence for Zone 3G. Thatcher is officially recommended.

Lake placed third in yield in 1956 and due to rust damage it placed fourth in 1954. However, since rust is unusual in this area and since Lake has other desirable characteristics for this zone it is officially recommended.

Stewart placed fourth in yield in 1956. Its late maturity is a serious handicap in this area and it is not recommended.

Lee was outyielded by the other four varieties tested in this zone in 1956. It placed third in each of the two previous years and is not recommended.

Cereal Variety Zone 3H

Only one satisfactory test was conducted in this small zone in 1956. It was conducted by Beverley Potter, Dorintosh, and can be found in the section "Individual Summarized Results of All Tests—Wheat" on page ●.

Lake, Thatcher and Selkirk are officially recommended for the zone.

Table No. 22—Summarized Results for Zone 3J

(3 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	37.7	34.4	33.7	36.1	30.3
Days from seeding to ripening	107.5	111.0	112.5	107.0	107.5
Height of plants in inches	38.0	40.0	47.3	38.3	38.3
Straw strength (maximum of 1)	1.9	2.4	4.2	1.5	2.7
Bushel weight in pounds	62.0	60.0	61.0	61.3	58.7
Commercial grades in percentage: 4 Nor	—	—	—	33.4	—
No. 5	66.7	66.7	—	33.3	—
No. 6	33.3	33.3	—	33.3	66.7
Feed	—	—	—	—	33.3
5 C.W.	—	—	33.3	—	—
6 C.W.	—	—	66.7	—	—

Necessary difference—2.8 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Thatcher outyielded the other four varieties tested in this zone in 1956. It placed first in the previous year as well, and is officially recommended for the zone.

Selkirk yielded slightly less than Thatcher in this zone in 1956. In the previous year it did not yield as well, but in general it is expected to yield satisfactorily in this area. It is officially recommended.

Lake placed third in yield in 1956. It was not included in Wheat Pool tests in this zone in the previous year, but other tests indicate that it is well adapted to this area and it is officially recommended.

Stewart and **Lee** placed fourth and fifth respectively in 1956. Neither of these varieties appear well adapted to the zone and they are not recommended.

Table No. 23—Summarized Results for Zone 4A

(4 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	46.1	43.4	29.3	48.8	38.6
Days from seeding to ripening	103.0	105.0	109.0	102.7	105.0
Height of plants in inches	37.7	42.3	51.7	37.3	39.7
Straw strength (maximum of 1)	1.5	2.8	2.5	1.3	4.9
Bushel weight in pounds	59.0	57.0	54.0	59.0	57.3
Commercial grades in percentage: No. 5	25.0	—	—	75.0	—
No. 6	50.0	50.0	—	—	50.0
Feed	25.0	50.0	50.0	25.0	50.0
5 C.W.	—	—	25.0	—	—
6 C.W.	—	—	25.0	—	—

Necessary difference—2.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4A

Selkirk outyielded the other varieties tested in this zone in 1956. In the three previous years it placed second in two years and third in one. Selkirk is officially recommended.

Thatcher placed second in yield in 1956, and in the past five years in this zone it placed first three times and second once. It is well adapted to the zone and is recommended.

Lake placed third in yield in both 1954 and 1956. It is rather late maturing, but, nevertheless, appears to be adapted to this area. It is officially recommended.

Lee and **Stewart** placed fourth and fifth respectively. While Lee placed first in yield in this zone in 1955, it placed fourth in 1954 and third in each of the two years before that. Stewart is too late maturing to be useful in this area.

Table No. 24—Summarized Results for Zone 4B

(7 satisfactory tests)

	Thatcher	Lake	Stewart	Selkirk	Lee
Yield in bushels per acre	33.8	34.0	31.1	36.1	28.3
Days from seeding to ripening	103.7	106.7	110.3	101.3	104.3
Height of plants in inches	35.5	36.7	46.3	34.7	31.2
Straw strength (maximum of 1)	1.6	3.7	3.9	1.9	1.9
Bushel weight in pounds	59.0	57.0	60.6	58.9	57.4
Commercial grades in percentage: 4 Nor	28.6	—	—	28.6	—
No. 5	14.3	28.6	—	14.3	28.6
No. 6	42.8	28.6	—	42.8	14.3
Feed	14.3	42.8	42.8	14.3	57.1
4 C.W.	—	—	14.3	—	—
5 C.W.	—	—	14.3	—	—
6 C.W.	—	—	28.6	—	—

Necessary difference—1.6 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 4B

Selkirk outyielded the other four varieties tested in this zone in 1956. No successful tests were conducted in this zone in 1955 and in 1954 rust damage made the best results unrealistic. However, Selkirk appears well adapted to the area and it is officially recommended.

Lake placed second in yield in this zone in 1956. In spite of the fact that it is rather late maturing it appears well adapted to the area and is recommended.

Thatcher placed third in this zone in 1956. Prior to the rust year of 1954, it performed well in the area, placing first in two years and second in one. It is recommended.

Stewart placed fourth in yield in 1956 and because of late maturity is not recommended for the zone.

Lee was outyielded by the other varieties tested in 1956, and is not recommended.

Kenneth Wills of Eastend shows the sign which indicates that he is conducting a variety test.

Table No. 25

Individual Summarized Results of All Tests—Wheat

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 6, headed, "Facts to Be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALI VAN DER WAAL, FERTILE										
3A	1	2	Thatcher	41.1	—	40	3.8	61	3 N.	I.
			Lake	39.9	—	44	2.6	61	4 N.	G., I.
			Stewart	45.7	—	48	5.0	65	3 C.W.	I.
			Selkirk	41.0	—	42	2.4	59	4 N.	G., I.
			Lee	36.7	—	41	4.2	62	4 N.	G., I.
No significant grain yield difference between varieties. Rainfall—May to August 6.48 inches.										
EDWIN PERSSON, HIRSCH										
2A	1	4	Thatcher	27.2	—	—	—	61	No. 5	—
			Lake	27.9	—	—	—	62	No. 5	—
			Stewart	25.9	—	—	—	62	5 C.W.	—
			Selkirk	25.7	—	—	—	60	No. 5	—
			Lee	22.9	—	—	—	63	No. 5	—
No significant grain yield difference between varieties. Rainfall record incomplete.										
WILLIAM E. OSBORNE, VIEWFIELD										
2A	1	5	Thatcher	24.0	106	—	—	61	No. 5	F.
			Lake	28.7	105	—	—	61	No. 5	F.
			Stewart	32.5	104	—	—	66	4 C.W.	F.
			Selkirk	24.5	105	—	—	61	No. 5	F.
			Lee	26.9	105	—	—	61	No. 5	F.
No significant grain yield difference between varieties. Rainfall—May to August 8.96. inches.										
WALTER L. STREGGER, MACOUN										
2A	1	6	Thatcher	25.6	103	32	3.4	63	2 N.	I.
			Lake	26.8	113	35	2.0	60	3 N.	I., Bl.
			Stewart	29.8	116	40	1.8	64	3 C.W.	I., Bl.
			Selkirk	25.2	103	33	2.2	62	3 N.	I.
			Lee	24.7	110	30	3.4	60	3 N.	I.
No significant grain yield difference between varieties. Rainfall—May to August 7.08 inches.										
DOUGLAS M. CHRISTENSON, BROMHEAD										
2A	1	7	Thatcher	31.1	—	—	—	62	2 N.	—
			Lake	21.6	—	—	—	61	3 N.	I.
			Stewart	25.1	—	—	—	66	1 C.W.	—
			Selkirk	22.6	—	—	—	60	3 N.	I.
			Lee	19.1	—	—	—	62	3 N.	G., I.
Necessary difference—6.7 bushels. Rainfall record incomplete.										
ED. C. GOSKI, FROUDE										
2A	1	8	Thatcher	12.2	—	24	2.6	63	2 N.	Bl.
			Lake	11.1	—	28	3.6	63	3 N.	Bl., I.
			Stewart	14.6	—	29	4.0	67	4 C.W.	St.B.P.,I.
			Selkirk	10.5	—	26	2.5	61	3 N.	Bl. I.
			Lee	6.2	—	23	3.0	61	3 N.	Bl., I.
Test damaged by wild oats—yields not included in zone summary. Rainfall—May to August 9.44 inches.										
ELSIE J. PEDERSEN, WAUCHOPE										
3A	1	10	Thatcher	—	102	22	3.6	61	3 N.	I.
			Lake	—	104	24	5.2	61	3 N.	I.
			Stewart	—	103	27	3.3	65	3 C.W.	I.
			Selkirk	—	102	19	2.0	60	3 N.	I.
			Lee	—	104	23	4.4	61	4 N.	G., I.
Test damaged by flooding and alkali—yields not scientifically reliable. Rainfall—May to August 10.66 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2A	1	9	Dale K. Slimmon, Heward.							

WHEAT POOL DISTRICT 2

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LEO V. JOSEPHSON, RADVILLE										
2A	2	1	Thatcher	28.0	—	35	1.6	61	3 N.	I., Bl.
			Lake	22.8	—	37	1.4	60	4 N.	G., I.
			Stewart	20.7	—	44	1.0	65	4 C.W.	F.
			Selkirk	22.3	—	34	1.0	58	4 N.	I., F.
			Lee	21.3	—	33	1.0	60	4 N.	I., F.
Necessary difference—4.8 bushels. Rainfall record incomplete.										
HARRY C. JENSEN, HARDY										
1A	2	2	Thatcher	33.0	109	36	2.2	63	3 N.	I., Bl.
			Lake	27.0	109	38	2.0	62	4 N.	I., F.
			Stewart	—	125	40	2.2	64	4 C.W.	F.
			Rescue	29.7	109	38	4.0	63	4 N.	I., F.
			Chinook	25.1	110	38	3.0	64	3 N.	I., Bl.
Stewart damaged—yields not included in zone summary. Rainfall—May to August 6.11 inches.										
RICHARD H. MEYERS, MINTON										
1A	2	2	Thatcher	12.0	—	—	—	63	4 N.	I., F.
			Lake	11.5	—	—	—	62	4 N.	I., F.
			Stewart	8.9	—	—	—	64	4 C.W.	I., F.
			Rescue	11.4	—	—	—	64	3 N.	F.
			Chinook	10.6	—	—	—	64	4 N.	I., F.
Necessary difference—1.4 bushels. Rainfall record incomplete.										
DOUGLAS L. NOBLE, CORONACH										
1A	2	3	Thatcher	—	—	30	1.8	62	3 N.	F.
			Lake	—	—	30	1.0	60	4 N.	G., F.
			Stewart	—	—	36	1.0	61	4 C.W.	F.
			Rescue	—	—	30	1.0	64	3 N.	F.
			Chinook	—	—	34	1.0	64	3 N.	F.
Test damaged—yields not scientifically reliable. Rainfall—May to August 6.45 inches.										
FRANK E. COVLIN, SCOUT LAKE										
1A	2	4	Thatcher	41.8	102	—	2.0	63	2 N.	I.
			Lake	40.0	100	—	1.0	63	2 N.	I.
			Stewart	33.5	105	—	2.0	66	1 C.W.	—
			Rescue	38.2	103	—	3.2	64	1 N.	—
			Chinook	36.4	104	—	4.0	65	1 N.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.18 inches.										
LESLIE H. LANGMAN, MELAVAL										
1A	2	6	Thatcher	47.3	—	43	—	64	1 N.	—
			Lake	40.1	—	43	—	64	2 N.	I.
			Stewart	47.7	—	45	—	66	1 C.W.	—
			Rescue	43.2	—	45	—	64	1 N.	—
			Chinook	40.1	—	45	—	65	1 N.	—
Necessary difference—5.4 bushels. Rainfall—May to August 5.97 inches.										
LEON F. HARTMAN, FLINTOFT										
1C	2	7	Thatcher	25.6	95	21	2.8	64	2 N.	St.
			Lake	26.8	97	25	2.8	64	3 N.	St., I.
			Stewart	30.1	102	28	3.2	67	3 C.W.	St.
			Rescue	25.8	96	21	2.2	64	1 N.	—
			Chinook	28.4	96	23	2.2	65	1 N.	—
Necessary difference—1.8 bushels. Rainfall—May to August 6.21 inches.										
EDWARD G. BOWDEN, ASSINIBOIA										
1A	2	8	Thatcher	37.3	92	31	2.6	64	1 N.	—
			Lake	31.4	90	32	1.8	64	2 N.	I.
			Stewart	39.5	87	36	5.0	66	1 C.W.	—
			Rescue	35.9	91	32	3.2	64	1 N.	—
			Chinook	34.8	89	30	2.4	65	1 N.	—
Necessary difference—3.6 bushels. Rainfall—May to August 7.56 inches.										
JOHN P. PICHE, HARPTREE										
1A	2	9	Thatcher	39.7	—	—	—	63	2 N.	I.
			Lake	28.9	—	—	—	62	3 N.	G., I.
			Stewart	30.6	—	—	—	66	2 C.W.	I.
			Rescue	32.3	—	—	—	64	2 N.	I.
			Chinook	33.4	—	—	—	65	2 N.	I.
Necessary difference—6.4 bushels. Rainfall record incomplete.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2A	2	10	Daniel N. Klippenstein, Trossachs.							

WHEAT POOL DISTRICT 3

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HELENE MORIN, FERLAND										
1C	3	1	Thatcher	—	—	—	—	54	No. 5	—
			Lake	—	—	—	—	53	No. 5	—
			Stewart	—	—	—	—	62	3 C.W.	I.
			Rescue	—	—	—	—	56	4 N.	—
			Chinook	—	—	—	—	59	2 N.	—
Test damaged by cattle—yields not scientifically reliable. Rainfall record incomplete.										
BYRON D. HOWLETT, ORKNEY										
1C	3	2	Thatcher	—	—	—	—	56	No. 6	G., F.
			Lake	—	—	—	—	53	No. 6	G., F.
			Stewart	—	—	—	—	58	5 C.W.	F.
			Rescue	—	—	—	—	57	No. 5	I., F.
			Chinook	—	—	—	—	58	No. 5	I., F.
Test damaged by frost—yields not scientifically reliable. Rainfall record incomplete.										
GORDON W. SMITH, CLIMAX										
1C	3	3	Thatcher	38.5	104	22	7.0	63	2 N.	I.
			Lake	32.1	108	20	3.0	63	2 N.	I.
			Stewart	31.2	109	26	1.0	66	1 C.W.	—
			Rescue	35.2	109	19	1.0	64	2 N.	Bl.
			Chinook	36.7	104	22	2.0	63	1 N.	—
Necessary difference—2.8 bushels. Rainfall record incomplete.										
JOHAN O. SVEE, FRONTIER										
1C	3	4	Thatcher	27.4	109	24	—	62	2 N.	Bl.
			Lake	27.0	108	24	—	62	2 N.	I.
			Stewart	24.6	111	25	—	65	1 C.W.	—
			Rescue	26.4	109	24	—	63	1 N.	—
			Chinook	29.7	110	24	—	64	1 N.	—
Necessary difference—2.8 bushels. Rainfall—May to August 4.10 inches.										
DELLA L. LISCOMBE, LOOMIS										
1C	3	4	Thatcher	16.9	—	—	—	63	3 N.	F.
			Lake	21.7	—	—	—	63	3 N.	F.
			Stewart	13.6	—	—	—	63	4 C.W.	F.
			Rescue	19.1	—	—	—	64	3 N.	F.
			Chinook	18.4	—	—	—	65	3 N.	F.
Necessary difference—4.0 bushels. Rainfall record incomplete.										
PHIL L. McLEOD, CLAYDON										
1C	3	4	Thatcher	43.3	104	34	1.4	63	3 N.	F.
			Lake	41.3	100	36	1.6	63	3 N.	F.
			Stewart	38.7	107	35	2.2	66	3 C.W.	F.
			Rescue	38.4	100	35	1.0	64	3 N.	F.
			Chinook	41.7	100	35	1.0	65	3 N.	F.
No significant grain yield difference between varieties. Rainfall—May to August 7.60 inches.										
FRANK H. ZIEGLER, OXARAT										
1C	3	5	Thatcher	33.5	114	36	—	62	4 N.	I., F.
			Lake	35.3	115	36	—	62	No. 5	St., I., F.
			Stewart	36.1	117	42	—	65	5 C.W.	St., I., F.
			Rescue	34.5	114	36	—	63	4 N.	I., F.
			Chinook	31.0	113	36	—	64	4 N.	F.
No significant grain yield difference between varieties. Rainfall—May to August 8.43 inches.										
KENNETH E. WILLS, EASTEND										
1C	3	7	Thatcher	30.5	—	—	—	64	3 N.	F.
			Lake	29.3	—	—	—	64	3 N.	F.
			Stewart	27.3	—	—	—	67	4 C.W.	F.
			Rescue	30.5	—	—	—	65	2 N.	I.
			Chinook	26.9	—	—	—	66	3 N.	F.
Necessary difference—1.9 bushels. Rainfall record incomplete.										
HUGH E. McDONOUGH, CRICHTON										
1C	3	9	Thatcher	43.0	—	36	1.0	63	3 N.	Bl., I.
			Lake	41.1	—	38	1.0	64	3 N.	I.
			Stewart	46.7	—	43	1.0	67	2 C.W.	I.
			Rescue	42.9	—	37	2.0	64	3 N.	I.
			Chinook	37.7	—	34	3.0	64	2 N.	I.
Necessary difference—3.6 bushels. Rainfall—May to August 6.52 inches.										
LAWRENCE R. MARTIN, CADILLAC										
1C	3	10	Thatcher	27.4	99	27	1.6	62	3 N.	Bl., I.
			Lake	26.5	101	31	1.2	62	3 N.	I., St.
			Stewart	24.8	104	33	1.6	67	4 C.W.	I., St.
			Rescue	26.1	98	30	1.8	62	3 N.	Bl., I.
			Chinook	25.0	99	29	2.3	64	2 N.	Bl.
No significant grain yield difference between varieties. Rainfall—May to August 7.81 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1C	3	8	Jack R. Lorge, Shaunavon.							

WHEAT POOL DISTRICT 4

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MARTIN H. SQUIRE, MAPLE CREEK										
1B	4	2	Thatcher	23.4	—	—	—	64	4 N.	F.
			Lake	23.9	—	—	—	62	No. 5	G., F.
			Stewart	23.5	—	—	—	65	4 C.W.	F.
			Rescue	27.7	—	—	—	64	4 N.	F.
			Chinook	21.2	—	—	—	65	4 N.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
PATRICIA A. WILSON, SWIFT CURRENT										
1B	4	3	Thatcher	30.7	101	31	1.4	61	No. 5	G., F.
			Lake	26.4	102	31	1.0	59	No. 5	G., F.
			Stewart	22.8	104	36	1.8	62	5 C.W.	F.
			Rescue	26.9	99	32	1.6	59	No. 5	G., F.
			Chinook	27.0	104	31	1.6	61	No. 5	G., F.
Necessary difference—4.4 bushels. Rainfall record incomplete.										
MURRAY J. REIMER, LEINAN										
1A	4	3	Thatcher	35.7	—	30	8.0	63	1 N.	—
			Lake	29.5	—	32	9.0	62	2 N.	I.
			Stewart	29.3	—	39	7.0	64	1 C.W.	—
			Rescue	32.2	—	31	8.0	63	1 N.	—
			Chinook	29.6	—	32	9.0	64	1 N.	—
Necessary difference—4.0 bushels. Rainfall—May to August 5.85 inches.										
ARTHUR F. GORDON, WEBB										
1B	4	4	Thatcher	48.6	109	37	8.8	63	1 N.	—
			Lake	34.9	109	36	4.6	63	2 N.	I.
			Stewart	43.0	111	40	5.2	64	2 C.W.	I.
			Rescue	48.7	109	37	7.8	64	1 N.	—
			Chinook	41.8	109	37	5.4	65	1 N.	—
Necessary difference—4.1 bushels. Rainfall—May to August 6.68 inches.										
C. LLOYD MUTSCHLER, FOX VALLEY										
1B	4	7	Thatcher	23.1	—	—	—	57	3 N.	—
			Lake	14.5	—	—	—	54	No. 5	I.
			Stewart	22.1	—	—	—	63	3 C.W.	I.
			Rescue	20.3	—	—	—	58	2 N.	—
			Chinook	21.3	—	—	—	61	2 N.	I.
Necessary difference—3.5 bushels. Rainfall —May to August 4.93 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1B	4	1	Glen A. Nicol, Tompkins.							

WHEAT POOL DISTRICT 5

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
J. BILLY COSTLEY, BATEMAN										
1A	5	2	Thatcher	35.4	—	—	—	62	2 N.	I.
			Lake	29.3	—	—	—	63	2 N.	I.
			Stewart	29.1	—	—	—	65	2 C.W.	I.
			Rescue	32.8	—	—	—	64	1 N.	—
			Chinook	30.9	—	—	—	63	1 N.	—
Necessary difference—4.2 bushels. Rainfall record incomplete.										
GERALD D. MIDDLEMISS, BURNHAM										
1A	5	4	Thatcher	16.3	81	26	7.0	59	2 N.	—
			Lake	15.0	86	27	3.0	59	2 N.	—
			Stewart	18.5	88	33	2.0	64	2 C.W.	I.
			Rescue	19.7	84	27	2.0	61	1 N.	—
			Chinook	17.4	82	29	3.0	63	1 N.	—
Necessary difference—2.6 bushels. Rainfall—May to August 4.82 inches.										
EDDY C. TEJSZERSKI, KELSTERN										
1A	5	5	Thatcher	45.3	110	30	3.0	62	4 N.	Bl., F.
			Lake	47.1	107	32	1.4	63	3 N.	Bl., I.
			Stewart	53.3	109	35	3.2	66	4 C.W.	F.
			Rescue	45.3	109	28	8.4	63	4 N.	Bl., F.
			Chinook	38.6	112	27	6.6	62	3 N.	Bl., I.
No significant grain yield difference between varieties. Rainfall—May to August 9.24 inches.										
LORENCE I. PETERSON, PARKBEG										
1A	5	7	Thatcher	54.3	96	35	1.0	65	1 N.	—
			Lake	52.4	99	39	1.0	64	2 N.	I.
			Stewart	61.4	102	46	2.4	67	1 C.W.	—
			Rescue	55.2	97	39	2.0	65	1 N.	—
			Chinook	46.9	96	38	2.4	65	1 N.	—
Necessary difference—7.4 bushels. Rainfall—May to August 9.25 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GORDON V. HART, BROWNLEE										
2B	5	8	Thatcher	55.9	104	35	5.0	63	2 N.	I.
			Lake	46.8	104	39	1.0	62	3 N.	I.
			Stewart	68.1	106	47	1.0	66	2 C.W.	I.
			Rescue	47.1	105	37	6.4	62	2 N.	I.
			Chinook	46.8	104	36	7.0	63	2 N.	I.
Necessary difference—10.2 bushels. Rainfall—May to August 6.87 inches.										
CLIFFORD D. VAN LOOSEN, ERNFOLD										
1A	5	10	Thatcher	25.0	—	35	1.4	57	Fd.	F.
			Lake	16.1	—	37	1.8	56	Fd.	F.
			Stewart	21.4	—	45	3.2	61	6 C.W.	F.
			Rescue	20.7	—	37	1.6	57	No. 6	F.
			Chinook	20.7	—	36	1.2	58	No. 6	F.
Necessary difference—4.5 bushels. Rainfall—May to August 5.94 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1A	5	9	Lloyd D. Turner, Aquadell.							

WHEAT POOL DISTRICT 6

DENNIS R. WAGNER, FRANCIS										
2A	6	2	Thatcher	36.0	—	—	—	60	No. 6	G., F.
			Lake	36.7	—	—	—	58	Fd.	G.,I.,F.
			Stewart	36.3	—	—	—	56	6 C.W.	G., F.
			Selkirk	37.1	—	—	—	60	No. 6	G., F.
			Lee	26.9	—	—	—	57	Fd.	G., I., F.
Necessary difference—7.1 bushels. Rainfall—May to August 9.92 inches.										
GEORGE L. MANN, DUMMER										
2A	6	3	Thatcher	32.3	86	35	1.2	65	1 N.	—
			Lake	26.0	91	36	1.4	64	2 N.	St.
			Stewart	30.1	96	43	1.2	67	1 C.W.	—
			Selkirk	29.2	86	33	1.0	63	2 N.	I.
			Lee	27.5	87	34	1.6	65	1 N.	—
No significant grain yield difference between varieties. Rainfall—May to August 6.39 inches.										
MARLENE THIELE, SPRING VALLEY										
1A	6	4	Thatcher	—	106	28	2.0	64	2 N.	I.
			Lake	—	106	34	1.0	64	2 N.	I.
			Stewart	—	119	36	6.0	67	1 C.W.	—
			Rescue	—	109	26	3.4	63	2 N.	I.
			Chinook	—	109	25	3.6	61	2 N.	I.
Test damaged by mice—yields not scientifically reliable. Rainfall—May to August 7.77 inches.										
ROSS G. RAMAGE, CRESTWYND										
1A	6	5	Thatcher	56.9	—	—	2.4	64	3 N.	G., I.
			Lake	44.9	—	—	2.0	63	3 N.	G., I.
			Stewart	67.0	—	—	5.2	67	2 C.W.	I.
			Selkirk	44.4	—	—	2.4	61	3 N.	G., I.
			Lee	54.0	—	—	2.0	63	3 N.	G., I.
Necessary difference—6.6 bushels. Rainfall—May to August 9.05 inches.										
LLOYD A. JENSEN, PENSE										
2E	6	6	Thatcher	49.7	108	36	2.4	61	No. 5	G., F.
			Lake	33.6	108	38	2.6	59	No. 5	G., F.
			Stewart	39.8	109	47	3.8	60	5 C.W.	F.
			Selkirk	36.2	107	36	3.0	64	4 N.	F.
			Lee	35.2	107	30	3.0	61	No. 5	G., F.
Necessary difference—7.3 bushels. Rainfall—May to August 7.35 inches.										
JACKIE LEIBEL, BALGONIE										
3C	6	7	Thatcher	65.1	87	43	3.4	64	2 N.	I.
			Lake	60.6	98	40	3.4	64	4 N.	I., G.
			Stewart	52.1	110	60	5.8	66	2 C.W.	I.
			Selkirk	63.3	88	44	3.2	64	3 N.	I.
			Lee	63.2	92	40	3.2	64	4 N.	I., G.
Necessary difference—3.3 bushels. Rainfall—May to August 8.00 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2E	6	1	William R. Beck, Lang.							
2E	6	5	Kenneth F. McKenzie, Belbeck.							

WHEAT POOL DISTRICT 7

JOHN M. JENSEN, MARYFIELD										
3A	7	1	Thatcher	48.7	98	44	3.0	66	2 N.	I.
			Lake	46.8	100	47	3.0	63	4 N.	I., F.
			Stewart	54.8	108	58	6.0	67	4 C.W.	F.
			Selkirk	53.0	99	45	2.0	63	4 N.	I., F.
			Lee	43.5	101	43	3.4	64	4 N.	I., F.
Necessary difference—4.9 bushels. Rainfall—May to August 10.69 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DONALD J. COX, LANGBANK										
3A	7	3	Thatcher	37.2	106	37	1.2	64	4 N.	G., I.
			Lake	43.5	107	40	1.4	64	No. 5	D.G., F.
			Stewart	46.6	108	47	4.2	66	4 C.W.	F.
			Selkirk	39.8	104	37	1.0	64	4 N.	G., I.
			Lee	37.9	104	37	1.6	64	No.5	D.G., F.
No significant difference between varieties. Rainfall—May to August 10.47 inches.										
LAWRENCE DEBRECENI, KIPLING										
3A	7	4	Thatcher	36.9	—	—	—	61	4 N.	D., F., I.
			Lake	32.7	—	—	—	61	4 N.	D., F., I.
			Stewart	48.1	—	—	—	59	4 C.W.	F.
			Selkirk	36.1	—	—	—	59	4 N.	D., F., I.
			Lee	31.8	—	—	—	61	No. 5	D., F., I.
Necessary difference—6.4 bushels. Rainfall record incomplete.										
LOUIS CARON, MONTMARTRE										
2A	7	6	Thatcher	47.7	103	41	1.0	64	No. 5	D.G., F.
			Lake	50.2	109	44	1.0	63	No. 5	D.G., F.
			Stewart	54.6	112	52	3.0	67	5 C.W.	F.
			Selkirk	50.0	103	40	1.0	63	No. 5	D.G., F.
			Lee	38.5	109	37	5.0	63	No. 5	D.G., F.
Necessary difference—3.9 bushels. Rainfall—May to August 10.81 inches.										
EDWARD L. HEXTALL, WOLSELEY										
3A	7	7	Thatcher	58.6	98	41	1.8	63	4 N.	I., St.
			Lake	49.6	98	47	1.2	63	4 N.	I., St.
			Stewart	67.8	104	51	3.0	65	4 C.W.	I., St.
			Selkirk	62.6	96	41	1.2	62	4 N.	I., St.
			Lee	48.3	96	37	2.0	63	4 N.	I., B.P.
Necessary difference—5.7 bushels. Rainfall—May to August 8.03 inches.										
RAYMOND C. SCARROW, SPY HILL										
3B	7	9	Thatcher	51.6	—	38	3.4	59	No. 5	F.
			Lake	54.8	—	36	2.4	60	No. 5	F.
			Stewart	60.5	—	47	5.0	58	5 C.W.	F.
			Selkirk	60.6	—	37	2.6	61	No. 5	F.
			Lee	37.9	—	35	6.0	58	No. 6	F.
Necessary difference—9.2 bushels. Rainfall—May to August 14.89 inches.										
MORGAN N. ANDERSON, ATWATER										
3C	7	10	Thatcher	54.4	100	41	1.8	64	4 N.	I., F.
			Lake	47.7	104	43	4.4	64	4 N.	I., F.
			Stewart	63.0	110	54	7.4	67	4 C.W.	I., F.
			Selkirk	55.0	102	39	3.0	63	4 N.	I., F.
			Lee	47.8	104	41	5.6	62	No. 5	I., G.. F.
Necessary difference—7.1 bushels. Rainfall—May to August 11.35 inches.										
CHARLOTTE A. MERCER, LEMBERG										
3C	7	11	Thatcher	50.2	—	39	1.0	64	3 N.	I.
			Lake	53.3	—	44	1.0	64	4 N.	G., I.
			Stewart	54.7	—	54	2.0	67	3 C.W.	I.
			Selkirk	48.9	—	39	1.0	63	4 N.	G., I.
			Lee	42.5	—	38	1.0	63	4 N.	G., I.
Necessary difference—5.2 bushels. Rainfall—May to August 12.34 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3B	7	2	Robert V. Kinash, Moosomin.							
3B	7	2	Robert W. Clark, Fleming.							
3C	7	8	Gilbert B. Windrim, Rocanville.							

WHEAT POOL DISTRICT 8

JAMES J. KELLY, SALTCOATS										
3B	8	2	Thatcher	—	—	—	—	63	3 N.	I.
			Lake	—	—	—	—	63	3 N.	I.
			Stewart	—	—	—	—	65	3 C.W.	I.
			Selkirk	—	—	—	—	62	3 N.	I.
			Lee	—	—	—	—	63	4N .	I., F.
Test damaged by birds—yields not scientifically reliable. Rainfall record incomplete.										
HARVEY GULASH, McKIM										
3C	8	3	Thatcher	60.4	106	44	2.4	62	No. 5	I., F.
			Lake	50.7	105	45	2.0	62	No. 6	G., I., F.
			Stewart	30.9	118	51	5.8	58	Fd.	G., I., F.
			Selkirk	65.0	105	41	1.2	62	4 N.	F.
			Lee	39.0	107	43	6.0	59	No. 6	G., I., F.
Necessary difference—9.4 bushels. Rainfall—May to August 6.70 inches.										

Wheat Pool District 8—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MARCEL BERNDT, VEREGIN										
3B	8	5	Thatcher	53.7	104	40	2.0	61	No. 6	F.
			Lake	43.5	109	48	4.0	57	No. 6	F.
			Stewart	33.1	—	54	5.0	59	6 C.W.	F.
			Selkirk	52.3	103	39	2.0	62	No. 5	F.
			Lee	53.1	105	40	3.0	60	No. 6	F.
Necessary difference—5.3 bushels. Rainfall—May to August 9.97 inches.										
WALTER F. PODOVINNIKOFF, KAMSACK										
3B	8	5	Thatcher	25.3	—	33	—	62	4 N.	F.
			Lake	31.2	—	37	—	61	No. 5	F.
			Stewart	38.0	—	46	—	63	4 C.W.	F.
			Selkirk	28.6	—	32	—	60	4 N.	F.
			Lee	26.3	—	33	—	61	No. 5	F.
Necessary difference—8.4 bushels. Rainfall—May to August 9.41 inches.										
PAUL PROKOPIUK JR., BURGIS										
3C	8	6	Thatcher	29.9	101	38	1.0	64	3 N.	I.
			Lake	28.6	108	35	1.0	61	No. 4	F.
			Stewart	39.8	116	59	4.0	64	4 C.W.	F.
			Selkirk	33.7	99	41	1.0	63	3 N.	I.
			Lee	25.7	104	35	2.0	60	4 N.	F., B.P.
Necessary difference—2.9 bushels. Rainfall—May to August 9.42 inches.										
THOMAS J. PASLOSKI, RAMA										
3B	8	7	Thatcher	37.5	—	38	1.6	61	4 N.	F.
			Lake	37.8	—	41	1.4	62	4 N.	F.
			Stewart	31.3	—	50	1.8	59	6 C.W.	G., F.
			Selkirk	38.2	—	37	1.4	61	4 N.	F.
			Lee	29.8	—	38	1.4	58	No. 5	G., F.
Necessary difference—5.0 bushels. Rainfall—May to August 8.44 inches.										
JOHN GELETCHUK, RAMA										
3C	8	7	Thatcher	50.2	—	43	2.0	59	No. 6	G., I., F.
			Lake	52.2	—	43	3.0	54	Fd.	G., I., F.
			Stewart	37.8	—	60	1.0	50	Fd.	G., I., F.
			Selkirk	45.7	—	43	1.0	58	No. 6	G., I., F.
			Lee	45.2	—	43	4.0	55	Fd.	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 9.75 inches.										
WAYNE G. LOWE, HINCHLIFFE										
4A	8	8	Thatcher	44.7	96	36	1.0	60	No. 6	F.
			Lake	34.3	98	40	5.0	58	No. 6.	F.
			Stewart	23.3	98	40	2.0	57	6 C.W.	F.
			Selkirk	39.1	96	36	1.0	60	No. 5	F.
			Lee	34.1	100	42	9.0	57	No. 6	F.
Necessary difference—4.9 bushels. Rainfall record incomplete.										
OREST HATALEY, ARRAN										
4A	8	10	Thatcher	45.7	111	36	1.0	61	No. 5	F.
			Lake	54.6	111	42	1.0	59	Fd.	F.
			Stewart	49.5	112	60	2.0	55	Fd.	F.
			Selkirk	51.5	111	36	1.0	61	No. 5	F.
			Lee	46.0	111	36	1.0	59	Fd.	F.
Necessary difference—4.7 bushels. Rainfall—May to August 11.42 inches.										
EDWARD J. BELL, HUDSON BAY										
3F	8	11	Thatcher	45.5	102	40	1.0	59	No. 6	G., I., F.
			Lake	46.9	104	45	1.0	56	Fd.	G., F.
			Stewart	33.7	106	61	4.0	49	Fd.	G., I., F.
			Selkirk	49.0	102	40	1.0	58	No. 6	G., I., F.
			Lee	40.0	104	38	3.0	55	No. 6	G., I., F.
Necessary difference—4.8 bushels. Rainfall—May to August 12.23 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3B	8	1	Mervin Wagner, MacNutt.							
3C	8	3	Mervin Lutz, Fenwood.							
3C	8	4	George E. Lazurko, Willowbrook.							

WHEAT POOL DISTRICT 9

GERALD TKATCH, JASMIN										
3C	9	1	Thatcher	42.7	117	46	2.0	58	Fd.	G., I., F.
			Lake	31.0	118	45	3.4	53	Fd.	G., I., F.
			Stewart	23.5	119	52	4.2	47	Fd.	—
			Selkirk	43.6	117	43	3.2	59	No. 6	G., I., F.
			Lee	33.4	118	40	3.2	56	Fd.	G., I., F.
Necessary difference—6.7 bushels. Rainfall—May to August 7.30 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HERBERT G. HUBER, LIPTON										
3C	9	2	Thatcher	55.3	—	51	2.0	63	2 N.	I.
			Lake	54.3	—	50	1.8	64	3 N.	F.
			Stewart	65.7	—	63	2.0	66	4 C.W.	F.
			Selkirk	49.4	—	52	1.2	63	3 N.	F.
			Lee	45.2	—	49	1.4	63	3 N.	F.
Necessary difference—7.6 bushels. Rainfall—May to August 6.51 inches.										
GASPER ORBAN, PUNNICHY										
3C	9	3	Thatcher	57.2	—	44	1.0	60	No. 6	G., I., F.
			Lake	46.7	—	50	2.0	58	Fd.	G., I., F.
			Stewart	37.1	—	68	3.0	52	Fd.	G., I., F.
			Selkirk	59.7	—	45	1.0	61	No. 6	G., I., F.
			Lee	57.8	—	44	4.0	59	Fd.	G., I., F.
Necessary difference—4.3 bushels. Rainfall—May to August 9.13 inches.										
LYEL J. ROCKEL, LANIGAN										
2B	9	6	Thatcher	—	106	40	2.2	63	No. 5	G., I., F.
			Lake	—	107	44	1.6	62	No. 5	G., I., F.
			Stewart	—	109	51	3.0	65	5 C.W.	G., I., F.
			Rescue	—	105	40	2.6	62	No. 5	G., I., F.
			Chinook	—	105	44	2.6	63	No. 5	G., I., F.
Test damaged by rodents—yields not scientifically reliable. Rainfall—May to August 7.97 inches.										
H. EDWARD DENMAN, RAYMORE										
3C	9	7	Thatcher	33.6	103	40	8.0	62	4 N.	F.
			Lake	29.8	106	42	8.0	63	4 N.	F.
			Stewart	34.0	112	44	7.0	67	4 C.W.	F.
			Selkirk	37.1	104	42	8.0	62	4 N.	F.
			Lee	30.3	105	40	7.0	62	4 N.	F.
Necessary difference—4.5 bushels. Rainfall—May to August 10.03 inches.										
R. R. WODTKE, PUNNICHY										
3C	9	7	Thatcher	61.2	121	46	2.0	60	No. 6	F.
			Lake	44.3	123	48	1.0	60	Fd.	G., I., F.
			Stewart	55.5	129	60	5.0	59	6 C.W.	F.
			Selkirk	57.3	120	47	1.0	60	No. 6	F.
			Lee	54.3	123	46	2.0	58	No. 6	F.
Necessary difference—8.2 bushels. Rainfall—May to August 10.36 inches.										
ROBERT K. HAMILTON, LEROY										
3D	9	8	Thatcher	38.7	101	38	1.0	60	No. 6	G., I., F.
			Lake	37.1	104	43	1.0	58	No. 6	G., I., F.
			Stewart	30.4	106	56	3.0	59	6 C.W.	G., I., F.
			Selkirk	38.3	102	42	1.0	60	No. 6	G., I., F.
			Lee	33.9	102	37	1.0	56	No. 6	G., I., F.
Necessary difference—3.0 bushels. Rainfall—May to August 12.96 inches.										
JANET M. VIRGIN, FOAM LAKE										
3C	9	9	Thatcher	42.8	106	41	1.4	62	4 N.	F.
			Lake	49.0	106	45	2.2	58	No. 6	G., F.
			Stewart	47.5	108	53	7.6	59	5 C.W.	G., F.
			Selkirk	49.9	100	40	1.2	64	4 N.	F., I.
			Lee	36.8	106	40	1.6	61	No. 5	G., F.
Necessary difference—6.4 bushels. Rainfall—May to August 9.93 inches.										
DOREEN LINDAL AND VERNA NUPDAL, MOZART										
3C	9	10	Thatcher	59.3	—	38	1.0	63	4 N.	F.
			Lake	59.1	—	40	3.0	61	No. 5	G., F.
			Stewart	67.6	—	49	7.0	65	5 C.W.	G., F.
			Selkirk	59.3	—	37	2.0	62	4 N.	F.
			Lee	50.8	—	34	3.0	62	No. 5	G., F.
Necessary difference—7.6 bushels. Rainfall—May to August 10.87 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3C	9	10	Glenn A. Reynolds, Elfros.							

WHEAT POOL DISTRICT 10

RONALD R. J. MASSINE, CHAMBERLAIN										
2B	10	1	Thatcher	—	108	19	2.0	61	2 N.	Bl.
			Lake	—	109	22	2.0	60	3 N.	F.
			Stewart	—	107	27	3.0	65	3 C.W.	St.
			Rescue	—	104	20	2.0	64	2 N.	F.
			Chinook	—	107	18	2.2	62	2 N.	F.
Uneven germination—yields not scientifically reliable. Rainfall—May to August 6.74 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MURRAY K. KING, BRIDGEFORD										
1A	10	2	Thatcher	14.3	98	31	1.8	62	4 N.	F.
			Lake	15.8	99	31	2.0	61	No. 5	G., F.
			Stewart	7.5	100	32	2.0	60	5 C.W.	I., F.
			Rescue	14.2	98	31	2.2	61	4 N.	F.
			Chinook	11.2	98	32	3.4	62	4 N.	F.
Test damaged by weeds—yields not included in zone summary. Rainfall—May to August 7.44 inches.										
LAURENCE R. MITCHELL, BEECHY										
1A	10	3	Thatcher	46.3	—	—	—	63	4 N.	F.
			Lake	33.5	—	—	—	62	4 N.	F., I.
			Stewart	44.4	—	—	—	60	4 C.W.	F.
			Rescue	38.9	—	—	—	63	4 N.	F.
			Chinook	37.5	—	—	—	64	4 N.	F.
Necessary difference—2.3 bushels. Rainfall—May to August 4.09 inches.										
THOMAS CLARKE, DINSMORE										
1A	10	4	Thatcher	17.0	—	—	—	64	1 N.	—
			Lake	14.2	—	—	—	62	2 N.	I.
			Stewart	13.5	—	—	—	64	2 C.W.	I.
			Rescue	12.9	—	—	—	64	1 N.	—
			Chinook	15.9	—	—	—	64	1 N.	—
No significant grain yield difference between varieties. Rainfall record incomplete.										
TED L. TULLIS, TULLIS										
1A	10	5	Thatcher	37.4	—	33	1.0	64	4 N.	F.
			Lake	27.9	—	36	1.0	63	No. 5	F.
			Stewart	36.0	—	42	3.6	64	4 C.W.	I., F.
			Rescue	29.3	—	35	1.8	63	4 N.	F.
			Chinook	31.7	—	33	1.6	64	4 N.	F.
Necessary difference—4.1 bushels. Rainfall—May to August 6.90 inches.										
NORMAN W. LANGAGER, STRONGFIELD										
2D	10	6	Thatcher	32.2	101	32	2.0	59	No. 5	G., F.
			Lake	32.5	104	37	2.2	59	No. 5	G., F.
			Stewart	27.0	109	44	2.0	59	5 C.W.	G., F.
			Rescue	32.1	102	34	2.0	59	No. 5	G., F.
			Chinook	23.5	106	32	2.0	60	No. 5	G., F.
Necessary difference—4.6 bushels. Rainfall—May to August 5.07 inches.										
DONALD I. NORUM, SIMPSON										
2B	10	8	Thatcher	47.6	118	41	3.0	62	4 N.	F.
			Lake	33.5	121	42	2.4	61	No. 5	G., F.
			Stewart	48.2	123	52	3.2	64	5 C.W.	G., F.
			Rescue	47.9	118	42	4.0	63	4 N.	F.
			Chinook	31.8	119	42	3.6	62	4 N.	F.
Necessary difference—5.6 bushels. Rainfall—May to August 10.68 inches.										
ROY A. BEAUMONT, HANLEY										
2D	10	9	Thatcher	36.6	—	36	—	61	4 N.	F., I.
			Lake	24.0	—	45	—	60	No. 5	G., I., F.
			Stewart	28.6	—	51	—	63	4 C.W.	F.
			Rescue	32.0	—	45	—	61	No. 5	G., I., F.
			Chinook	30.5	—	45	—	62	4 N.	I.
Necessary difference—7.3 bushels. Rainfall record incomplete.										
E. DUANE CLIMENHAGA, DELISLE										
2D	10	10	Thatcher	31.4	97	31	1.2	62	No. 5	G., F.
			Lake	36.3	97	35	1.0	62	No. 5	G., F.
			Stewart	34.5	101	40	1.8	63	5 C.W.	G., F.
			Rescue	22.8	97	33	1.0	61	No. 5	G., F.
			Chinook	26.0	97	33	1.0	62	No. 5	G., F.
Necessary difference—3.7 bushels. Rainfall record incomplete.										

WHEAT POOL DISTRICT 11

R. OWEN MICKLEBOROUGH, ESTON										
1D	11	3	Thatcher	—	111	33	1.0	63	4 N.	I., F.
			Lake	—	116	37	1.0	61	No. 5	G., I., F.
			Stewart	—	118	40	3.0	62	4 C.W.	I., F.
			Rescue	—	111	31	1.0	63	4 N.	I., F.
			Chinook	—	116	35	1.0	64	4 N.	I., F.
Test damaged by mice—yields not scientificaly reliable. Rainfall—May to August 8.25 inches.										
DONALD P. HILLACRE, GLIDDEN										
1D	11	3	Thatcher	27.2	—	—	—	62	No. 5	G., I., F.
			Lake	25.3	—	—	—	62	No. 5	G., I., F.
			Stewart	30.0	—	—	—	65	5 C.W.	G., I., F.
			Rescue	27.8	—	—	—	62	No. 5	G., I., F.
			Chinook	24.0	—	—	—	63	No. 5	G., I., F.
No significant grain yield difference between varieties. Rainfall record incomplete.										

Wheat Pool District 11—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BRIAN N. WEBSTER, KINDERSLEY										
1D	11	6	Thatcher	39.9	108	34	2.0	64	1 N.	—
			Lake	33.3	112	36	2.0	64	3 N.	F.
			Stewart	51.3	116	46	4.0	65	1 C.W.	—
			Rescue	39.5	108	37	2.0	64	2 N.	F.
			Chinook	34.9	107	35	2.0	65	1 N.	—
Necessary difference—3.8 bushels. Rainfall—May to August 9.15 inches.										
WILLIAM A. R. BARKER, ROSETOWN										
1D	11	7	Thatcher	14.7	—	22	—	59	No. 6	G., I., F.
			Lake	15.1	—	23	—	58	No. 6	G., I., F.
			Stewart	13.4	—	27	—	57	6 C.W.	G., I., F.
			Rescue	14.0	—	22	—	59	No. 6	G., I., F.
			Chinook	13.3	—	23	—	60	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 5.67 inches.										
E. BERNICE KIRK, PLENTY										
1D	11	9	Thatcher	16.8	—	—	—	59	No. 6	G., I., F.
			Lake	20.2	—	—	—	56	Fd.	G., I., F.
			Stewart	20.1	—	—	—	57	Fd.	G., I., F.
			Rescue	17.5	—	—	—	58	No. 6	G., I., F.
			Chinook	15.2	—	—	—	59	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
GLEN H. ELLIOTT, BEAUFIELD										
1D	11	9	Thatcher	16.6	—	—	—	64	1 N.	—
			Lake	14.3	—	—	—	62	2 N.	I.
			Stewart	10.3	—	—	—	61	5 C.W.	G.
			Rescue	14.6	—	—	—	64	1 N.	—
			Chinook	13.9	—	—	—	64	1 N.	—
Samples bulked—yields not included in zone summary. Rainfall record incomplete.										
JAMES BENOIT, COURT										
1D	11	10	Thatcher	46.7	—	37	1.2	63	2 N.	I.
			Lake	39.1	—	42	1.0	63	3 N.	St., I.
			Stewart	38.4	—	60	2.4	66	Ex. No. 4 C.W.	St., I.
			Rescue	40.8	—	40	1.2	64	2 N.	I.
			Chinook	34.6	—	36	2.0	65	2 N.	I.
Necessary difference—3.4 bushels. Rainfall—May to August 6.73 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
1D	11	2	Shirley B. McPherson, Chipperfield.							
1D	11	4	Dennis J. Skjei, Eatonia.							

WHEAT POOL DISTRICT 12

JOHN D. McMILLAN, SPRINGWATER										
2D	12	1	Thatcher	32.5	115	36	1.0	61	4 N.	I., F.
			Lake	24.3	118	39	2.0	57	No. 5	G., I., F.
			Stewart	27.6	122	46	3.0	62	4 C.W.	I., F.
			Rescue	30.0	117	35	2.0	61	4 N.	I., F.
			Chinook	26.1	115	38	4.0	62	4 N.	I., F.
No significant grain yield difference between varieties. Rainfall—May to August 8.17 inches.										
NORMAN E. S. HEAVER, BALJENNIE										
3G	12	2	Thatcher	43.3	120	40	1.0	62	3 N.	Bl., I.
			Lake	39.6	118	42	4.0	63	3 N.	I.
			Stewart	39.8	127	50	4.0	66	3 C.W.	I.
			Selkirk	48.9	116	41	2.0	63	3 N.	I.
			Lee	32.5	123	41	2.0	60	4 N.	I., F.
Necessary difference—5.2 bushels. Rainfall—May to August 6.70 inches.										
A. BERT GRYLLS, CANDO										
2D	12	2	Thatcher	16.7	—	—	—	55	No. 6	G., I., F.
			Lake	13.9	—	—	—	54	No. 6	G., I., F.
			Stewart	12.1	—	—	—	59	6 C.W.	G., I., F.
			Rescue	14.8	—	—	—	55	No. 6	G., I., F.
			Chinook	13.7	—	—	—	55	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 4.82 inches.										
BERNARD J. CEY, LEIPZIG										
2D	12	3	Thatcher	36.9	107	34	6.6	61	No. 5	G., I., F.
			Lake	37.8	108	37	7.2	61	No. 5	G., I., F.
			Stewart	32.0	108	40	4.6	61	4 C.W.	F.
			Rescue	36.0	107	35	6.6	62	4 N.	I., F.
			Chinook	33.3	108	35	5.6	62	4 N.	I., F.
No significant grain yield difference between varieties. Rainfall—May to August 5.46 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ROBERT A. LECKIE, RUTHILDA										
2D	12	3	Thatcher	25.1	—	—	—	59	4 N.	F.
			Lake	21.5	—	—	—	57	No. 5	G., F.
			Stewart	19.4	—	—	—	58	5 C.W.	G., F.
			Rescue	24.0	—	—	—	60	4 N.	F.
			Chinook	18.5	—	—	—	61	4 N.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
HENRY A. REITER JR., LUSELAND										
2D	12	4	Thatcher	40.0	—	—	—	63	3 N.	I., F.
			Lake	39.6	—	—	—	60	4 N.	I., F.
			Stewart	41.9	—	—	—	56	4 C.W.	—
			Rescue	38.4	—	—	—	63	3 N.	I.
			Chinook	38.1	—	—	—	62	3 N.	I.
No significant grain yield difference between varieties. Rainfall—May to August 7.32 inches.										
RONALD L. HEINTZ, LUSELAND										
2D	12	4	Thatcher	45.1	—	—	—	64	2 N.	I.
			Lake	38.8	—	—	—	62	3 N.	I.
			Stewart	36.9	—	—	—	65	3 C.W.	I.
			Rescue	43.8	—	—	—	64	2 N.	I.
			Chinook	39.5	—	—	—	65	2 N.	I.
No significant grain yield difference between varieties. Rainfall—May to August 7.15 inches.										
ALECK W. TRYHUBA, CACTUS LAKE										
1D	12	6	Thatcher	27.4	—	—	—	63	3 N.	F.
			Lake	26.8	—	—	—	63	4 N.	I., F.
			Stewart	28.8	—	—	—	65	4 C.W.	F.
			Rescue	26.2	—	—	—	63	4 N.	I., F.
			Chinook	25.5	—	—	—	64	3 N.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
JOHN R. GARTNER, PRIMATE										
2D	12	6	Thatcher	45.1	89	34	3.2	63	2 N.	I.
			Lake	35.8	92	36	3.0	63	3 N.	F.
			Stewart	49.8	95	46	2.2	67	3 C.W.	St., I.
			Rescue	41.3	92	39	2.8	64	3 N.	F.
			Chinook	34.3	90	36	3.2	63	3 N.	F.
Necessary difference—4.6 bushels. Rainfall—May to August 6.99 inches.										
JAMES R. MARTIN, RUTLAND										
2D	12	7	Thatcher	54.8	—	38	8.0	64	1 N.	—
			Lake	47.8	—	41	7.0	63	2 N.	I.
			Stewart	42.2	—	52	5.0	62	3 C.W.	I.
			Rescue	52.3	—	40	8.0	65	1 N.	—
			Chinook	46.6	—	40	8.0	65	1 N.	—
Necessary difference—4.2 bushels. Rainfall record incomplete.										
DANIEL W. COURTENAY, UNWIN										
3E	12	8	Thatcher	29.1	—	—	—	64	3 N.	I.
			Lake	30.6	—	—	—	64	3 N.	I.
			Stewart	31.2	—	—	—	65	3 C.W.	I.
			Selkirk	31.9	—	—	—	64	3 N.	I.
			Lee	22.9	—	—	—	62	4 N.	G., I.
Necessary difference—5.3 bushels. Rainfall—May to August 13.24 inches.										
D. KEITH BULLERWELL, CUT KNIFE										
3E	12	9	Thatcher	31.3	111	35	2.4	65	3 N.	I.
			Lake	33.7	111	36	2.2	64	4 N.	I., F.
			Stewart	30.2	116	41	2.4	66	4 C.W.	F.
			Selkirk	31.9	111	36	2.0	64	3 N.	I., F.
			Lee	24.2	113	34	2.4	62	No. 5	G., I., F.
Necessary difference—2.1 bushels. Rainfall—May to August 8.44 inches.										
JAMES A. DELL, WILKIE										
2D	12	9	Thatcher	24.8	103	—	4.4	61	No. 5	F., I.
			Lake	25.0	103	—	4.6	60	No. 6	F., I.
			Stewart	24.0	105	—	5.8	61	5 C.W.	F., I.
			Rescue	25.3	104	—	3.6	62	No. 5	F., I.
			Chinook	22.2	103	—	5.0	62	No. 5	F., I.
No significant grain yield difference between varieties. Rainfall record incomplete.										

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

2D	12	5	M. Joan Warnock, Luseland.
3G	12	10	Rene L. Lacoursiere, Highgate.

WHEAT POOL DISTRICT 13

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
BERNADETTE HIEBERT, BAY TRAIL										
3D	13	1	Thatcher	34.5	111	42	1.4	62	4 N.	F.
			Lake	30.5	123	47	1.6	60	No.5	G., F.
			Stewart	20.4	127	53	2.6	61	5 C.W.	G., F.
			Selkirk	36.9	104	42	1.0	62	4 N.	F.
			Lee	29.6	120	41	1.2	62	4 N.	F.
Necessary difference—6.4 bushels. Rainfall record incomplete.										
VERNON K. LINDBERG, DUNDURN										
2D	13	3	Thatcher	68.4	—	38	1.4	65	1 N.	—
			Lake	62.1	—	41	1.0	64	2 N.	St.
			Stewart	66.3	—	47	2.4	66	1 C.W.	—
			Rescue	61.4	—	40	3.2	65	1 N.	—
			Chinook	56.7	—	42	3.8	65	1 N.	—
No significant grain yield difference between varieties. Rainfall—May to August 6.87 inches.										
F. JOSEPH ELEY, COLONSAY										
2B	13	4	Thatcher	34.6	114	38	1.4	56	No. 6	G., F.
			Lake	27.3	114	42	1.0	56	Fd.	G., F.
			Stewart	31.4	115	51	3.2	58	6 C.W.	G., F.
			Rescue	33.6	113	45	2.8	56	No. 6	G., F.
			Chinook	25.9	112	41	2.0	57	No. 6	G., F.
Necessary difference—5.0 bushels. Rainfall—May to August 7.13 inches.										
H. HARRY FRIESEN, OSLER										
2D	13	5	Thatcher	12.8	91	25	1.2	64	2 N.	I.
			Lake	12.3	93	26	1.0	63	2 N.	I.
			Stewart	10.3	107	34	2.0	66	2 C.W.	I.
			Rescue	12.2	94	26	1.0	65	1 N.	—
			Chinook	12.5	92	26	1.0	65	1 N.	—
Necessary difference—1.4 bushels. Rainfall—May to August 5.24 inches.										
KEITH W. TARASOFF, LANGHAM										
2D	13	6	Thatcher	24.5	100	35	1.0	62	4 N.	F.
			Lake	22.7	107	38	1.0	60	4 N.	F.
			Stewart	27.5	107	43	2.0	65	4 C.W.	F.
			Rescue	20.1	107	36	1.0	61	4 N.	F.
			Chinook	20.5	107	37	1.0	63	4 N.	F.
No significant grain yield difference between varieties. Rainfall—May to August 6.73 inches.										
LORRAINE E. PAVLOVE, ARELEE										
2D	13	7	Thatcher	33.9	—	37	2.6	63	3 N.	F.
			Lake	31.4	—	37	3.2	66	4 N.	G., F.
			Stewart	10.0	—	39	1.8	51	6 C.W.	—
			Rescue	30.2	—	36	3.8	62	3 N.	F.
			Chinook	25.0	—	38	3.2	63	2 N.	I.
Necessary difference—7.4 bushels. Rainfall—May to August 7.12 inches.										
THOMAS J. BURWELL, ASQUITH										
2D	13	7	Thatcher	21.7	95	34	1.0	64	3 N.	F.
			Lake	19.3	95	35	1.0	64	3 N.	F.
			Stewart	17.1	100	37	3.0	67	4 C.W.	F.
			Rescue	18.5	95	36	1.0	64	3 N.	F.
			Chinook	19.9	95	36	1.0	64	2 N.	I.
No significant grain yield difference between varieties. Rainfall—May to August 6.42 inches.										
EUGENE MISKOLCZI, PRUDHOMME										
2B	13	8	Thatcher	10.6	—	22	—	64	2 N.	I.
			Lake	10.7	—	22	—	63	3 N.	I.
			Stewart	11.1	—	26	—	66	4 C.W.	I., F.
			Rescue	7.1	—	22	—	63	3 N.	I., F.
			Chinook	9.9	—	22	—	64	2 N.	I.
No significant grain yield difference between varieties. Rainfall—May to August 4.64 inches.										
JOHN A. BUHLER, ABERDEEN										
2B	13	8	Thatcher	38.7	117	34	8.6	61	4 N.	F.
			Lake	34.5	117	37	7.6	60	4 N.	F.
			Stewart	42.5	119	42	9.0	60	4 C.W.	F.
			Rescue	34.7	117	36	4.0	59	4 N.	F.
			Chinook	31.3	117	35	6.4	61	4 N.	F.
Necessary difference—3.5 bushels. Rainfall—May to August 6.42 inches.										
ERNEST THOMS, BRUNO										
2B	13	9	Thatcher	51.2	—	—	—	62	No. 5	G., F.
			Lake	44.4	—	—	—	61	No. 6	G., F.
			Stewart	47.6	—	—	—	61	6 C.W.	G., F.
			Selkirk	46.8	—	—	—	62	No. 5	G., F.
			Lee	43.1	—	—	—	61	No. 6	G., F.
No significant grain yield difference between varieties. Rainfall—May to August 6.50 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RENE A. REYNAUD, REYNAUD										
3D	13	10	Thatcher	28.5	—	33	2.0	64	4 N.	G., F.
			Lake	25.0	—	34	1.0	63	No. 5	G., I., F.
			Stewart	34.7	—	32	2.0	66	4 C.W.	St., F.
			Selkirk	24.7	—	34	4.0	63	4 N.	G., F.
			Lee	26.0	—	38	1.0	62	No. 5	G., I., F.
Samples bulked—yields not included in zone summary. Rainfall—May to August 6.49 inches.										
ALFRED NIENABER, ST. GREGOR										
3D	13	11	Thatcher	67.3	107	41	3.2	64	2 N.	I.
			Lake	65.8	105	45	2.0	64	3 N.	G., I.
			Stewart	66.2	114	53	5.0	66	Ex. 4 C.W.	G., I.
			Selkirk	71.1	104	43	2.0	64	3 N.	G., I.
			Lee	62.6	109	40	2.8	64	3 N.	G., I.
No significant grain yield difference between varieties. Rainfall—May to August 6.86 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3D	13	10	Alvin Hessdorfer, St. Benedict.							

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KENNETH G. THOMAS, LINTLAW										
4A	14	1	Thatcher	33.8	—	—	—	55	Fd.	G., I., F.
			Lake	30.6	—	—	—	53	Fd.	G., I., F.
			Stewart	16.9	—	—	—	49	Fd.	G., I., F.
			Selkirk	34.2	—	—	—	55	Fd.	G., I., F.
			Lee	25.5	—	—	—	55	Fd.	G., I., F.
Necessary difference—6.7 bushels. Rainfall—May to August 8.43 inches.										
JOHN W. WIEBENSOHN, CLAIR										
3D	14	2	Thatcher	40.0	—	38	2.2	62	3 N.	I., F.
			Lake	45.6	—	43	2.2	61	4 N.	I., F.
			Stewart	39.2	—	54	3.8	64	4 C.W.	F.
			Selkirk	42.7	—	39	2.4	62	4 N.	I., F.
			Lee	30.4	—	39	3.4	63	4 N.	I., F.
Necessary difference—6.4 bushels. Rainfall—May to August 7.42 inches.										
WILLIAM E. GLASSPELL, LAC VERT										
3D	14	3	Thatcher	—	—	—	—	54	No. 6	F.
			Lake	—	—	—	—	50	Fd.	—
			Stewart	—	—	—	—	55	6 C.W.	G., F.
			Selkirk	—	—	—	—	55	No. 6	F.
			Lee	—	—	—	—	50	Fd.	—
Test damaged—yields not scientifically reliable. Rainfall record incomplete.										
GEORGE W. ROTZIEN, ROSE VALLEY										
3D	14	4	Thatcher	66.8	108	43	2.2	61	No. 6	G., F.
			Lake	51.3	114	46	3.4	59	Fd.	G., I., F.
			Stewart	41.6	119	61	1.6	57	6 C.W.	G., F.
			Selkirk	63.9	106	36	1.0	60	No. 6	G., F.
			Lee	56.0	111	38	5.8	58	Fd.	G., I., F.
Necessary difference—6.5 bushels. Rainfall—May to August 10.75 inches.										
JOHN MARTIN, PERIGORD										
3D	14	5	Thatcher	57.7	—	40	1.2	60	No. 6	G., I., F.
			Lake	44.7	—	42	1.0	58	Fd.	G., I., F.
			Stewart	19.8	—	55	1.8	51	Fd.	G., I., F.
			Selkirk	58.3	—	39	1.0	59	No. 6	G., I., F.
			Lee	46.0	—	38	1.0	57	Fd.	G., I., F.
Necessary difference—5.8 bushels. Rainfall—May to August 8.56 inches.										
MIKE MADARASH, CHELAN										
4A	14	6	Thatcher	60.2	102	41	2.4	60	No. 6	F.
			Lake	53.9	106	45	2.4	58	No. 6	F.
			Stewart	27.5	117	55	3.4	55	5 C.W.	—
			Selkirk	70.2	101	40	1.8	60	No. 5	F.
			Lee	48.7	104	41	4.8	58	No. 6	F.
Necessary difference—6.1 bushels. Rainfall—May to August 12.00 inches.										
JACK HANKINS, VALPARAISO										
3F	14	7	Thatcher	37.0	90	34	2.0	63	No. 5	St., G.,F.
			Lake	33.3	104	36	3.4	60	No. 5	St., G.,F.
			Stewart	34.3	104	42	4.8	63	6 C.W.	St., G.,F.
			Selkirk	36.0	90	31	3.2	62	4 N.	St., F.
			Lee	35.3	96	33	3.0	63	No. 5	St., G.,F.
No significant grain yield difference between varieties. Rainfall—May to August 8.39 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GEORGE S. SERVISS, ETHELTON										
3D	14	8	Thatcher	58.8	—	42	1.0	64	3 N.	I.
			Lake	58.3	—	42	1.0	64	3 N.	I.
			Stewart	51.7	—	58	3.0	64	Ex. 4 C.W.	I.
			Selkirk	51.0	—	42	1.0	63	3 N.	I.
			Lee	52.2	—	44	1.0	60	No. 5	G., I., F.
Necessary difference—4.8 bushels. Rainfall—May to August 7.26 inches.										
G. WINSTON SOUTH, WHITTOME										
3D	14	9	Thatcher	38.3	111	—	3.0	59	No. 6	G., I., F.
			Lake	21.5	113	—	8.0	53	Fd.	G., I., F.
			Stewart	20.2	113	—	8.0	49	Fd.	G., I., F.
			Selkirk	39.1	110	—	5.0	55	Fd.	G., I., F.
			Lee	30.7	110	—	6.0	55	Fd.	G., I., F.
Necessary difference—8.2 bushels. Rainfall—May to August 8.45 inches.										
ARNOLD R. LEISTER, CLASHMOOR										
3F	14	10	Thatcher	32.5	120	38	3.0	59	No. 6	G., I., F.
			Lake	27.1	120	41	3.2	56	No. 6	G., I., F.
			Stewart	24.6	120	52	4.8	59	6 C.W.	G., I., F.
			Selkirk	31.0	120	36	4.0	58	No. 6	G., I., F.
			Lee	31.7	120	35	3.4	56	No. 6	G., I., F.
Necessary difference—5.7 bushels. Rainfall—May to August 7.27 inches.										
LOUIS L. YASKOW, PAS TRAIL										
3F	14	11	Thatcher	44.2	104	—	—	57	No. 6	G., F.
			Lake	38.7	104	—	—	55	Fd.	G., I., F.
			Stewart	22.1	114	—	—	59	6 C.W.	G., F.
			Selkirk	38.6	104	—	—	58	No. 6	G., F.
			Lee	30.4	110	—	—	53	Fd.	G., I., F.
Necessary difference—6.4 bushels. Rainfall—May to August 9.31 inches.										

WHEAT POOL DISTRICT 15

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LEONARD J. BOUTIN, DOMREMY										
3D	15	2	Thatcher	30.1	100	31	1.0	65	4 N.	F.
			Lake	33.1	99	34	2.0	65	4 N.	F.
			Stewart	32.4	105	37	7.0	66	4 C.W.	F.
			Selkirk	28.1	99	30	1.0	65	4 N.	F.
			Lee	21.2	100	30	1.0	64	No. 6	G., F.
Necessary difference—2.5 bushels. Rainfall—May to August 4.50 inches.										
LEANNE HALL, DAVIS										
3J	15	3	Thatcher	18.5	112	42	2.4	60	No. 6	G., F.
			Lake	16.7	116	44	2.0	57	No. 6	G., F.
			Stewart	12.8	—	58	4.0	58	No. 6	G., F.
			Selkirk	21.2	112	43	1.2	59	No. 6	G., F.
			Lee	13.3	114	42	4.0	56	No. 6	G., F.
Necessary difference—4.7 bushels. Rainfall—May to August 9.32 inches.										
GARRY JENSEN, FIR RIDGE										
3J	15	3	Thatcher	56.9	107	41	1.2	62	No. 5	I., F.
			Lake	47.7	109	43	2.2	61	No. 5	I., F.
			Stewart	48.6	113	50	4.4	63	5 C.W.	I., F.
			Selkirk	52.1	106	40	1.2	62	No. 5	I., F.
			Lee	48.2	107	42	2.4	61	No. 6	G., F.
Necessary difference 6.6 bushels. Rainfall record incomplete.										
ED. C. HUNCHAK, BLAINE LAKE										
3G	15	5	Thatcher	—	—	—	—	53	Fd.	F.
			Lake	—	—	—	—	44	Fd.	F.
			Stewart	—	—	—	—	43	Fd.	F.
			Selkirk	—	—	—	—	47	Fd.	F.
			Lee	—	—	—	—	47	Fd.	F.
Test damaged by frost—yields not scientifically reliable. Rainfall—May to August 7.39 inches.										
ROBERT GOOD, SHELL LAKE										
4B	15	6	Thatcher	24.6	100	32	2.0	63	4 N.	F.
			Lake	28.5	100	32	3.0	62	No. 5	G., F.
			Stewart	27.7	103	36	6.0	65	4 C.W.	F.
			Selkirk	27.2	96	31	2.0	62	4 N.	F.
			Lee	20.4	100	30	1.0	62	No. 5	G., F.
Necessary difference—2.6 bushels. Rainfall—May to August 6.45 inches.										
J. AUGUSTIN BONNEAUX, ORMEAUX										
4B	15	7	Thatcher	40.7	103	36	2.0	64	No. 5	G., I., F.
			Lake	45.1	104	37	3.0	63	No. 5	G., I., F.
			Stewart	38.9	101	50	4.0	65	5 C.W.	G., I., F.
			Selkirk	39.8	102	37	2.0	63	No. 5	G., I., F.
			Lee	30.3	100	32	1.0	64	No. 5	G., I., F.
Necessary difference—5.3 bushels. Rainfall—May to August 8.30 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
LARRY L. LUEBKE, WILD ROSE										
3J	15	8	Thatcher	37.8	108	31	2.0	64	No.5	G., F.
			Lake	38.9	113	33	3.0	62	No. 5	G., F.
			Stewart	39.8	112	34	4.2	62	6 C.W.	G., F.
			Selkirk	35.1	108	32	2.0	63	4 N.	I., F.
			Lee	29.3	108	31	1.8	59	Fd.	F.
Necessary difference—3.3 bushels. Rainfall—May to August 5.75 inches.										
JEAN MAZURKEWICH, MEATH PARK										
4B	15	10	Thatcher	39.1	—	35	1.0	45	Fd.	F.
			Lake	36.1	—	38	2.0	41	Fd.	F.
			Stewart	29.2	—	44	3.0	50	Fd.	F.
			Selkirk	38.4	—	31	1.0	48	Fd.	F.
			Lee	32.2	—	30	1.0	45	Fd.	F.
Necessary difference—3.4 bushels. Rainfall—May to August 7.99 inches.										
GERRY D. PARKER, CHOICELAND										
3F	15	11	Thatcher	37.2	110	37	1.0	60	No. 5	G., F.
			Lake	38.0	106	37	1.4	59	No. 6	G., F.
			Stewart	33.6	110	47	2.0	60	6 C.W.	G., F.
			Selkirk	37.8	97	34	1.2	63	No. 5	G., I., F.
			Lee	32.7	108	37	1.0	58	No. 6	G., F.
No significant grain yield difference between varieties. Rainfall—May to August 7.89 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
4B	15	7	Claude Francoeur, Ormeaux.							
3J	15	9	Edward Toporowski, Paddockwood.							

WHEAT POOL DISTRICT 16

EDNA I. SHERMAN, FIELDING										
3G	16	1	Thatcher	19.3	—	31	3.0	62	4 N.	G., I.
			Lake	19.4	—	34	2.0	58	No. 5	G., F.
			Stewart	18.3	—	40	3.8	59	5 C.W.	G., F.
			Selkirk	20.9	—	29	1.6	62	4 N.	G., I.
			Lee	17.0	—	34	1.4	62	No. 5	G., F.
No significant grain yield difference between varieties. Rainfall—May to August 6.09 inches.										
WILLIAM WINTONYK, RICHARD										
3G	16	2	Thatcher	63.2	—	46	1.0	60	No. 6	G., I., F.
			Lake	45.9	—	48	2.0	56	Fd.	G., I., F.
			Stewart	—	—	58	9.0	—	—	—
			Selkirk	57.0	—	42	1.0	58	No. 6	G., I., F.
			Lee	50.4	—	45	2.0	57	Fd.	G., I., F.
Stewart badly frozen—yields not included in zone summary. Rainfall—May to August 9.62 inches.										
JOE B. BALAZSI JR., RABBIT LAKE										
4B	16	3	Thatcher	25.7	—	34	1.0	60	No. 6	G., I., F.
			Lake	28.5	—	36	1.0	60	No. 6	G., I., F.
			Stewart	25.4	—	48	2.6	60	Fd.	G., I., F.
			Selkirk	29.8	—	35	1.2	60	No. 6	G., I., F.
			Lee	19.5	—	28	1.0	58	Fd.	G., I., F.
Necessary difference—6.3 bushels. Rainfall—May to August 11.15 inches.										
EDWARD J. BRYDGES, EDAM										
3E	16	4	Thatcher	47.7	—	—	—	62	4 N.	F.
			Lake	32.1	—	—	—	62	No. 5	G., I., F.
			Stewart	46.6	—	—	—	65	5 C.W.	G., I., F.
			Selkirk	44.0	—	—	—	62	4 N.	G., I., F.
			Lee	42.3	—	—	—	59	No. 6	G., I., F.
Necessary difference 5.5 bushels. Rainfall—May to August 10.89 inches.										
KEN W. WESSON, MAIDSTONE										
3E	16	5	Thatcher	47.3	103	38	1.0	62	4 N.	I., F.
			Lake	44.7	104	42	1.0	59	No. 5	G., I., F.
			Stewart	44.2	107	55	2.0	60	5 C.W.	I., F.
			Selkirk	45.2	102	40	1.0	61	4 N.	I., F.
			Lee	44.5	106	37	1.0	63	No. 5	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 17.29 inches.										
LANO R. HINDE, WASECA										
3E	16	5	Thatcher	59.0	115	39	1.8	62	3 N.	I.
			Lake	62.6	117	44	1.6	63	4 N.	I., St.
			Stewart	63.2	119	51	2.0	66	Ex.4 C.W.	I., St.
			Selkirk	64.5	116	42	1.6	62	4 N.	I., St.
			Lee	52.2	118	40	2.2	60	No. 5	F.
No significant grain yield difference between varieties. Rainfall—May to August 10.79 inches.										

Wheat Pool District 16—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ALAN R. DAVIS, FURNESS										
3E	16	6	Thatcher	48.2	—	—	—	63	No. 5	G., F.
			Lake	45.3	—	—	—	62	No. 6	G., I., F.
			Stewart	46.0	—	—	—	65	5 C.W.	G., F.
			Selkirk	47.3	—	—	—	63	No. 5	I., F.
			Lee	43.3	—	—	—	61	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 11.15 inches.										
JOSEPH R. C. ROTHERY, PARADISE HILL										
3E	16	7	Thatcher	55.3	—	38	2.0	62	No. 5	I., F.
			Lake	57.5	—	40	1.4	62	No. 6	G., I., F.
			Stewart	51.0	—	54	3.0	58	5 C.W.	G., I., F.
			Selkirk	59.9	—	38	1.0	61	No. 6	G., I., F.
			Lee	53.5	—	39	2.0	60	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 8.30 inches.										
HARRY C. RUNDBERG, SPRUCE LAKE										
4B	16	8	Thatcher	21.7	—	30	1.0	60	4 N.	I., F.
			Lake	22.3	—	29	8.0	58	No. 6	G., I., F.
			Stewart	21.5	—	44	1.0	63	6 C.W.	G., I., F.
			Selkirk	26.2	—	30	1.0	60	4 N.	I., F.
			Lee	18.9	—	26	3.0	57	No. 6	G., I., F.
Necessary difference—2.7 bushels. Rainfall—May to August 12.60 inches.										
ROBERT JETZKE, SPRUCE LAKE										
3E	16	8	Thatcher	28.2	—	—	—	61	No. 5	G., F.
			Lake	32.2	—	—	—	61	No. 6	G., I., F.
			Stewart	30.9	—	—	—	64	6 C.W.	G., I., F.
			Selkirk	31.3	—	—	—	61	No. 5	G., F.
			Lee	29.2	—	—	—	60	No. 6	G., I., F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
GENEVIEVE E. GAMBLE, MEDSTEAD										
4B	16	9	Thatcher	31.0	—	—	—	60	No. 6	G., I., F.
			Lake	29.0	—	—	—	58	Fd.	G., I., F.
			Stewart	27.7	—	—	—	61	6 C.W.	G., I., F.
			Selkirk	34.3	—	—	—	58	No. 6	G., I., F.
			Lee	28.7	—	—	—	58	Fd.	G., I., F.
No significant grain yield difference between varieties. Rainfall—May to August 12.76 inches.										
CRESTON J. STORY, RANGER										
4B	16	10	Thatcher	54.1	108	46	2.8	61	No. 6	G., I., F.
			Lake	48.4	116	48	5.0	57	Fd.	G., I., F.
			Stewart	47.6	127	56	6.8	60	Fd.	G., I., F.
			Selkirk	57.1	106	44	4.0	61	No. 6	G., I., F.
			Lee	48.1	113	41	4.2	58	Fd.	G., I., F.
Necessary difference—4.1 bushels. Rainfall—May to August 7.96 inches.										
BEVERLY POTTER, DORINTOSH										
3H	16	11	Thatcher	44.7	—	—	—	60	No. 6	F.
			Lake	52.7	—	—	—	58	No. 6	F.
			Stewart	28.2	—	—	—	59	Fd.	F.
			Selkirk	52.1	—	—	—	57	No. 6	F.
			Lee	45.1	—	—	—	56	Fd.	G., I., F.
Necessary difference—4.3 bushels. Rainfall record incomplete.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3E	16	4	Marcel Blanchette, Jack Fish Lake.							

BARLEY TESTS

A total of 114 barley tests were seeded in 1956. Each of these tests included five varieties. Husky, Parkland, Vantmore and Vantage were included in all tests. Titan was grown only in those tests in the west, south-west and west-central areas of the province. It was replaced by Montcalm in the eastern, north-eastern and northern cereal variety zones.

DESCRIPTION OF VARIETIES

NOTE—For a report on yielding ability of these varieties and the official recommendations, see "Summarization According to Cereal Variety Zones" on page 48.

Husky is a six-rowed, smooth-awned feed variety developed at the University of Saskatchewan from a cross involving the varieties Peatland, Regal, O.A.C. 21 and Newal. It is high yielding, late maturing and has strong, medium-long straw. It is resistant to most races of stem rust, but susceptible to loose and covered smut. It has some tendency to shatter.

Parkland is a six-rowed, smooth-awned malting variety developed at the Brandon Experimental Farm from a cross involving the varieties Newal, Peatland, Montcalm and Olli. It has medium-tall, medium-strong straw. Parkland is resistant to stem rust but susceptible to loose and covered smut.

Vantmore is a six-rowed, smooth-awned feed variety developed at the Brandon Experimental Farm from the cross Titan X Vantage. It was licensed for commercial distribution in Canada in 1954. Vantmore is equal to Vantage in straw length and strength, and in maturity. It is resistant to stem rust, moderately resistant to loose and covered smut and to leaf diseases but susceptible to leaf rust.

Vantage is a six-rowed, smooth-awned feed variety developed from a cross of (Newal X Peatland) X Plush made at the Brandon Experimental Farm. It is medium-late in maturity and has medium-strong straw. It is resistant to stem rust, but susceptible to leaf rust and to the smuts. The awns are difficult to remove in threshing.

Titan is a six-rowed, smooth-awned feed variety developed at the University of Alberta from the cross Trebi X Glabron. It is a relatively short, strong-strawed variety. Titan is resistant to covered smut, but susceptible to stem and leaf rust and to loose smut.

Montcalm is a six-rowed, smooth-awned, malting variety developed at Macdonald College, Quebec and licensed for commercial distribution in 1945. It has tall, moderately strong straw and is fairly late maturing. It has some resistance to covered smut, but is susceptible to loose smut and to stem and leaf rust.

Lynn Lowes displays the signs supplied with his barley test.

Table No. 26—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satisfactory Tests	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm	Necessary Difference* in Bushels
1A	11	71.4	63.9	66.8	69.9	63.4	—	2.86
1B	5	69.9	65.2	70.4	80.3	66.3	—	3.88
1C	6	47.8	41.3	46.5	54.4	43.3	—	2.41
1D	3	29.7	25.0	38.2	34.1	35.5	—	N.S.
2A	2	55.7	53.3	45.1	52.9	—	55.1	N.S.
2B	4	65.5	56.9	57.1	60.7	50.2	—	3.68
2D	10	51.1	40.8	44.0	50.8	43.4	—	2.34
2E	2	61.8	72.7	70.9	70.9	—	84.2	5.49
3A	4	54.7	48.3	49.8	49.5	—	56.0	N.S.
3B	4	78.6	69.0	62.2	62.6	—	66.6	5.34
3C	6	65.4	58.7	56.6	60.3	—	65.7	N.S.
3D	4	56.8	58.2	47.8	51.5	—	57.2	4.52
3E	3	64.0	63.0	56.8	60.8	—	67.0	N.S.
3F	5	51.0	46.0	43.5	49.3	—	52.2	2.87
3G	8	52.3	45.7	47.5	52.9	—	49.9	2.91
3H	2	61.8	52.9	49.9	58.0	—	57.3	5.00
3J	4	45.7	42.8	44.5	42.6	—	47.1	N.S.
4A	2	40.1	36.1	37.8	39.3	—	37.5	N.S.

***Necessary Difference**—Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of these differences. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over another in that particular zone group.

N.S.—No significant grain yield difference between varieties.

**See zone map, page 45.

Table No. 26. Zones 1A to 2D (except 2A). In these zones **Husky** and **Vantage** performed about equally well on an average basis. Husky placed first in three zones, while Vantage placed first in two zones and second in three others. **Vantmore** placed third on an average basis, ranking first in one zone, second in one and third in four zones. **Titan** was generally lower in yield than these three varieties, although it placed second in Zone 1D. **Parkland** ranked lower than the other varieties tested on an average basis, placing fourth or fifth in all but one zone. It did, however, place second in Zone 2D.

Zones 2E to 4B (including 2A). **Montcalm** placed first in yield in this area on an average basis. It placed first in yield in six of the twelve zones in this area. **Husky** ranked second on an average basis, placing first in three zones and second in six others. However, it placed fifth in Zone 2E. **Parkland** and **Vantage** were generally equal in yield on an average basis. Parkland placed first in one zone and second in two others. Vantage placed first in one zone and second in two others. **Vantmore** placed fifth of the five varieties tested on an average basis. It was outyielded by the other varieties in seven of the twelve zones in this area.

Table No. 27—Average Number of Days from Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm
1A	93.8	92.2	93.3	92.8	88.0	—
1B	92.7	94.7	92.7	93.7	90.3	—
1C	102.2	101.2	97.2	97.6	96.2	—
1D	99.5	101.0	99.5	100.5	94.0	—
2A	88.0	87.0	86.0	87.0	—	87.0
2B	95.8	94.3	93.3	95.0	92.0	—
2D	93.8	93.9	94.4	94.3	87.1	—
2E	100.5	96.5	96.5	97.0	—	97.5
3A	73.0	76.0	75.5	79.0	—	79.5
3B	94.5	92.8	93.5	94.3	—	93.0
3C	89.3	87.5	87.5	87.7	—	88.5
3D	94.7	93.3	94.8	94.5	—	94.3
3E	103.0	102.0	101.0	103.0	—	103.0
3F	96.3	92.0	93.3	94.0	—	92.0
3G	97.5	94.0	93.5	93.5	—	92.5
3H	95.0	92.0	92.0	92.0	—	92.0
3J	100.5	95.0	96.5	96.5	—	96.0
4A	84.0	79.0	80.0	80.0	—	78.0
4B	105.0	103.0	103.0	104.0	—	103.0

Table No. 27. Zones 1A to 2D (except 2A). **Titan** was the earliest maturing of the varieties tested in this area. It placed first in all the zones. On an average basis **Vantmore** placed second. It was second in two zones and tied for second in two others. **Husky** placed third on an average basis, although it should be noted that it placed fifth in three of these zones. **Parkland** and **Vantage** were quite similar in time of maturity. In only one zone was there more than one day difference between them.

Zones 2E to 4B (including 2A). On an average basis in this area, **Parkland** was the earliest maturing of the varieties tested. It placed first in three zones and tied for first place in four other zones. **Vantmore** placed second on an average basis. It ranked first in two zones and tied for first place in four zones. **Montcalm** averaged third in maturity in this area. **Vantage** placed fourth on an average basis and **Husky** was generally the latest maturing of the varieties tested in this area.

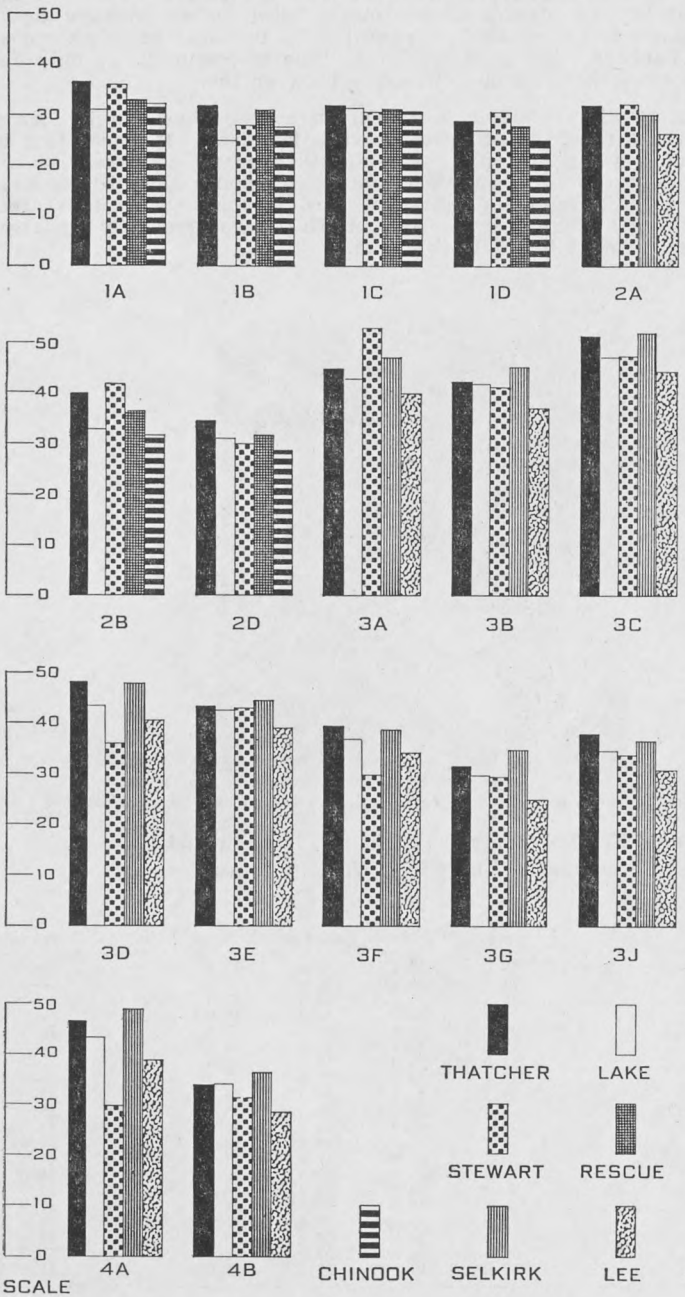
Kenneth Naber is shown harvesting an early barley variety in his test at Whittome.

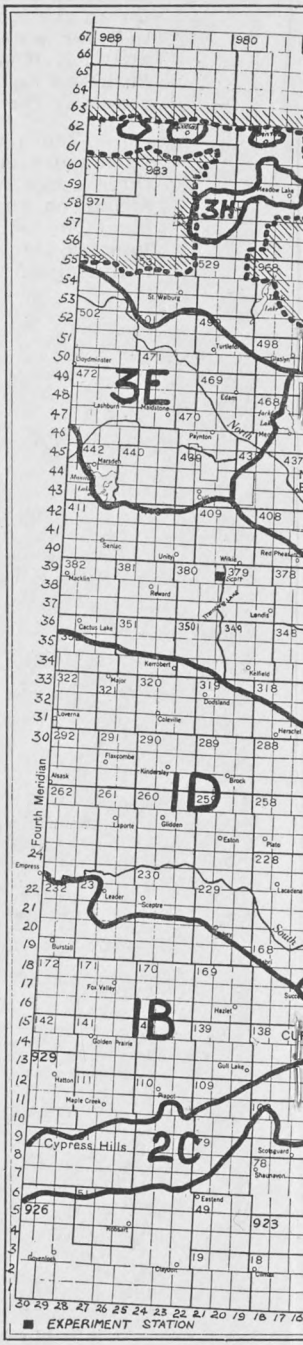
Table No. 28—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm
1A	31.6	35.1	32.6	32.4	30.8	—
1B	33.4	36.4	36.8	34.6	32.6	—
1C	31.3	35.3	32.5	32.5	29.0	—
1D	26.0	28.0	26.0	27.0	21.0	—
2A	24.0	24.5	22.0	22.5	—	26.5
2B	33.0	34.8	33.2	32.4	28.2	—
2C	31.0	30.0	31.0	32.0	29.0	—
2D	33.4	36.1	32.3	32.7	30.1	—
2E	39.5	41.5	38.5	39.5	—	42.0
3A	25.0	26.0	26.0	28.0	—	25.0
3B	39.3	41.5	41.0	39.0	—	42.5
3C	38.4	40.3	39.1	38.8	—	41.0
3D	39.2	41.0	39.4	39.6	—	41.6
3E	30.0	28.0	29.0	26.0	—	31.0
3F	35.0	36.0	35.7	34.3	—	36.3
3G	36.6	38.9	35.1	34.3	—	37.9
3H	33.0	35.0	32.0	31.0	—	36.0
3J	27.3	30.0	27.0	25.7	—	32.0
4A	31.0	36.0	29.0	31.0	—	37.0
4B	37.0	39.0	35.0	35.0	—	41.0

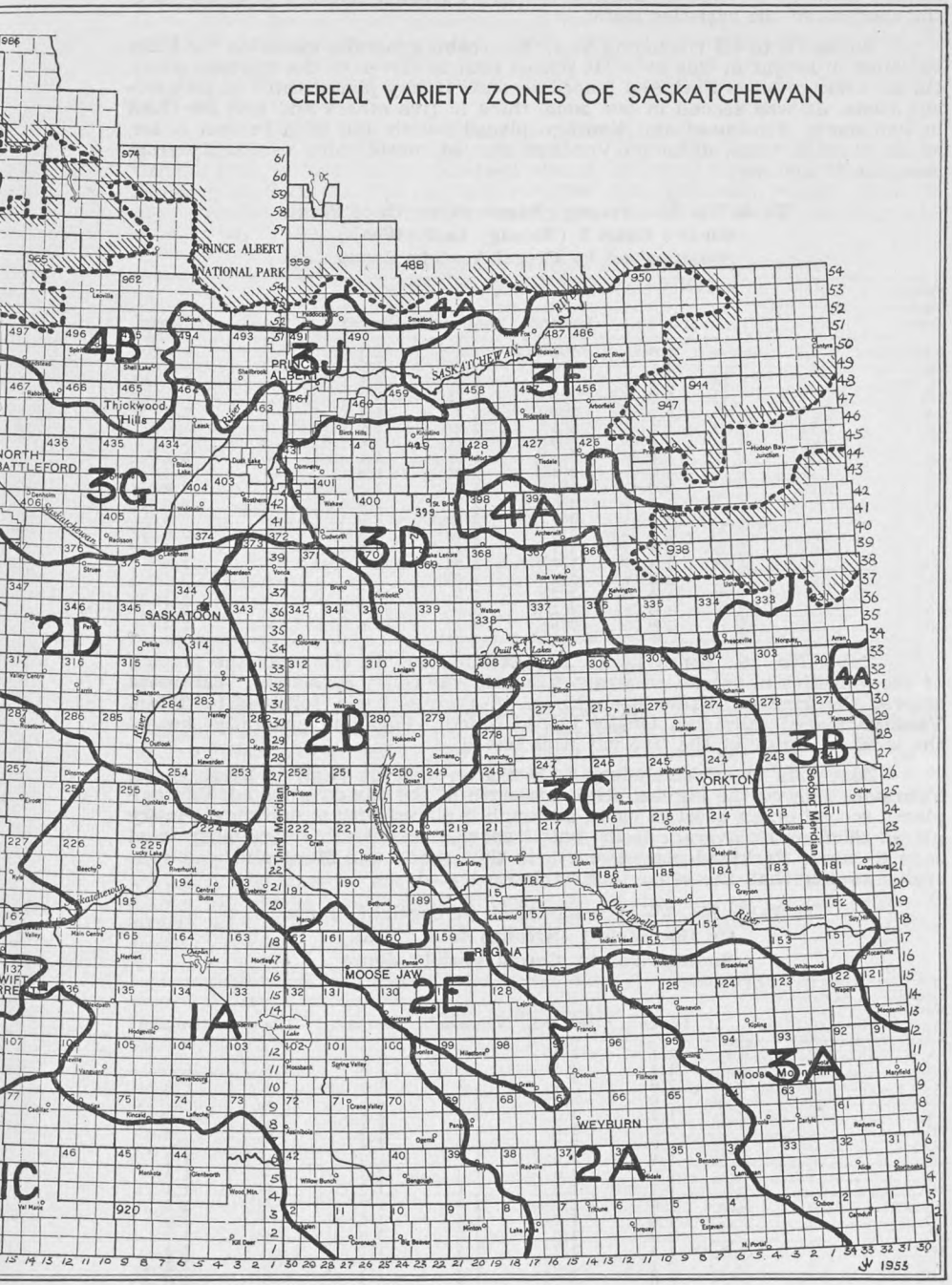
Table No. 28. Zones 1A to 2D (except 2A). On an average basis in these zones **Parkland** exceeded the other varieties in height. It ranked first in four zones and second in one. **Vantmore** placed second on an average basis,

GRAPHS SHOWING COMPARATIVE WHEAT YIELDS





NOTE: This map is not



fully up to date in the numbers and boundaries of municipalities and local improvement districts owing to changes that are being made.

although there was considerable variation from one zone to another. **Vantage** ranked third on an average basis, followed by **Husky. Titan** was consistently the shortest of the varieties tested.

Zones 2E to 4B (including 2A). **Montcalm** generally exceeded the other varieties in height in this area. It placed first in eleven of the thirteen zones. On an average basis **Parkland** placed second. **Husky** placed third on an average basis. It was second in one zone, third in five others and tied for third in two more. **Vantmore** and **Vantage** placed fourth and fifth in that order, on an average basis, although Vantage showed considerable variability from one zone to another.

Table No. 29—Average Straw Strength of Plants On the Basis 1 (Strong) to 9 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm
1A	1.9	2.0	1.6	2.1	2.0	—
1B	2.6	2.9	1.8	2.3	2.3	—
1C	2.1	2.1	1.4	1.5	1.6	—
1D	5.7	4.7	5.7	6.0	5.2	—
2A	1.7	2.4	1.4	1.7	—	2.2
2B	2.6	3.5	2.4	1.9	1.9	—
2D	1.9	2.0	1.7	2.0	3.0	—
2E	4.0	2.2	1.5	3.1	—	3.6
3A	4.4	4.4	3.0	1.4	—	1.6
3B	2.0	3.0	1.7	2.6	—	3.8
3C	3.5	4.0	2.3	2.8	—	4.0
3D	2.3	3.0	2.4	2.0	—	3.9
3E	2.2	2.8	2.8	3.6	—	2.6
3F	2.1	3.3	2.4	3.0	—	4.0
3G	2.1	1.7	2.0	2.5	—	3.5
3H	2.2	3.2	1.6	1.0	—	3.2
3J	1.8	1.7	1.3	1.2	—	1.9
4A	1.0	4.2	1.0	1.0	—	5.2
4B	3.8	2.6	2.2	2.6	—	2.2

Table No. 29. Zones 1A to 2D (except 2A). In this area the placing of the varieties in regard to straw strength was fairly consistent. **Vantmore** showed the greatest straw strength on an average basis, followed by **Titan. Vantage** placed third and **Husky** placed fourth. **Parkland** generally showed the weakest straw of the five varieties tested.

Zones 2E to 4B (including 2A). On an average basis in these zones, **Vantmore** showed the highest straw strength of the varieties tested. **Vantage** placed second on an average basis, although it placed fifth in one zone. **Husky** placed third on an average basis, but it showed considerable variability from zone to zone. **Parkland** placed fourth in this region and **Montcalm** was generally weaker than the other four varieties tested.

Table No. 30—Average Neck Strength of Plants On the Basis 1 (Strong) to 3 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm
1A	2.1	2.4	1.2	1.7	1.4	—
1B	2.2	2.4	1.3	1.8	1.6	—
1C	2.0	2.4	1.2	1.4	1.1	—
1D	2.0	2.4	2.0	2.0	2.0	—
2A	1.2	2.8	1.5	1.2	—	2.0
2B	2.0	2.6	1.7	1.4	1.8	—
2D	1.7	1.9	1.3	1.4	1.7	—
2E	1.5	2.0	1.0	1.0	—	1.5
3A	1.7	2.0	1.4	2.2	—	1.8
3B	1.5	1.7	1.1	1.2	—	2.3
3C	2.0	2.2	1.4	1.7	—	2.3
3D	1.6	1.7	1.6	1.6	—	1.8
3E	2.8	2.0	3.0	3.0	—	2.6
3F	1.5	2.2	1.5	1.7	—	2.2
3G	2.1	2.0	1.2	1.6	—	2.2
3J	2.0	2.2	1.1	1.3	—	2.0
4A	1.0	1.8	1.0	1.0	—	2.0
4B	2.2	2.6	1.2	1.4	—	2.6

Table No. 30. Zones 1A to 2D (except 2A). **Vantmore** showed the greatest neck strength of the varieties tested in this area. It placed first in three zones and tied for first place in one other. **Titan** and **Vantage** were essentially equal in neck strength. **Husky** showed generally less neck strength than the three varieties mentioned above, but it should be noted that it tied for first place in two of these zones. **Parkland** placed fifth of the five varieties in all of these zones.

Zones 2E to 4B (including 2A). **Vantmore** showed the greatest neck strength of the varieties tested in this area. It placed first in five zones and tied for first in four others. **Vantage** placed second on an average basis, while **Husky** placed third. The malting varieties were generally weaker than the feed varieties tested, but of the two malting varieties, **Parkland** showed greater neck strength than **Montcalm.**

Table No. 31—Average Weight Per Measured Bushel Summarized by Cereal Variety Zones

Cereal Variety Zone	Husky	Parkland	Vantmore	Vantage	Titan	Montcalm
1A	49.3	51.3	47.5	48.9	47.6	—
1B	49.8	49.8	47.8	48.4	47.2	—
1C	47.9	48.9	46.4	46.7	46.3	—
1D	49.0	50.3	47.0	48.3	45.7	—
2A	49.5	49.0	47.5	47.5	—	49.0
2B	49.3	50.8	48.3	48.0	46.7	—
2C	50.0	53.0	49.0	51.0	48.0	—
2D	48.6	49.5	46.0	48.8	46.3	—
2E	49.0	50.5	47.5	47.5	—	49.5
3A	48.6	50.4	48.2	47.4	—	48.8
3B	48.4	49.4	45.8	46.6	—	47.0
3C	48.6	50.8	47.4	47.7	—	49.0
3D	47.3	49.2	46.2	46.5	—	47.0
3E	49.5	50.5	46.8	47.8	—	49.8
3F	48.6	50.0	46.6	48.2	—	48.4
3G	46.0	47.5	45.8	46.8	—	46.4
3H	47.0	54.5	46.0	47.0	—	46.0
3J	46.5	49.5	46.5	47.3	—	48.0
4A	41.5	40.0	41.5	40.0	—	40.0
4B	49.0	51.5	47.0	47.5	—	49.0

Table No. 31. Zones 1A and 2D (except 2A.) **Parkland** consistently outweighed the other varieties tested in this area in 1956. It placed first in six of the seven zones. **Husky** produced high bushel weights as well and on an average basis it placed second. **Vantage** placed third and **Vantmore** placed fourth on an average basis. **Titan** was generally lower in bushel weight than the other varieties tested.

Zones 2E to 4B (including 2A.) In this area as in the remainder of the province, **Parkland** outweighed the other varieties tested. It placed first in eleven of the thirteen zones. **Montcalm** placed second on an average basis in this area. **Husky** placed third, followed by **Vantage** on an average basis. In nearly all zones, **Vantmore** placed fifth, although in Zone 4A it tied for first place.

Table No. 32—Percentage of Commercial Grades by Varieties

(Zones 1A to 2D, except 2A)

Variety	1 C.W. %	2 C.W. %	3 C.W. %	1 Feed %	2 Feed %	3 Feed %
Husky	—	—	—	88.9	6.7	4.4
Parkland	37.8	15.6	20.0	20.0	2.2	4.4
Vantmore	—	—	—	71.2	24.4	4.4
Vantage	—	—	—	84.5	11.1	4.4
Titan	—	—	—	64.4	26.7	8.9

(Zones 2E to 4B, including 2A)

Variety	1 C.W. %	2 C.W. %	3 C.W. %	1 Feed %	2 Feed %	3 Feed %
Husky	—	—	—	82.2	7.1	10.7
Parkland	8.9	21.4	30.3	28.6	5.4	5.4
Vantmore	—	—	—	73.3	19.6	7.1
Vantage	—	—	—	75.0	16.1	8.9
Montcalm	5.4	16.1	33.9	25.0	10.7	8.9

Table No. 32. Zones 1A to 2D (except 2A.) **Parkland,** the only malting variety tested in this area cannot be directly compared with the other four varieties which are eligible only for the feed grades. Of these feed varieties, **Husky** graded highest, with 89% of the samples included in 1 Feed. **Vantage** placed second with 85% in the top feed grade. **Vantmore** and **Titan** graded somewhat lower with 71% and 64% respectively in 1 Feed. This reflected the relative bushel weight of the varieties.

Zones 2E to 4B (including 2A). In this area, two malting varieties and three feed varieties were tested. No direct comparison can be made between the two classes of grain. Of the two malting varieties, **Parkland** graded somewhat higher than **Montcalm.** Of the feed varieties, **Husky** graded highest, with 82% of the samples included in No. 1 Feed. **Vantage** and **Vantmore** graded somewhat lower with 75% and 73% respectively in the top feed grade.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

Table No. 33—Summarized Results for Zone 1A

(11 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	71.4	63.9	66.8	69.9	63.4
Days from seeding to ripening	93.8	92.2	93.3	92.8	88.0
Height of plants in inches	31.6	35.1	32.6	32.4	30.8
Straw strength (maximum of 1)	1.9	2.0	1.6	2.1	2.0
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.1	2.4	1.2	1.7	1.4
Bushel weight in pounds	49.3	51.3	47.5	48.9	47.6
Commercial grades in percentage: 1 C.W. 6R	—	63.6	—	—	—
3 C.W. 6R	—	18.2	—	—	—
1 Feed	90.9	18.2	72.7	90.9	81.8
2 Feed	9.1	—	27.3	9.1	9.1
3 Feed	—	—	—	—	9.1

Necessary difference—2.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1A

Husky placed first in this zone in 1956. It was just slightly higher in yield than Vantage, but was outyielded by Vantage in the previous year and in 1953. Husky is not recommended at the present time for this zone.

Vantage placed second in this zone in 1956 and has placed either first or second in each of five previous years testing by the Wheat Pool. It is the only variety officially recommended for the zone.

Vantmore placed third in this zone in both 1955 and 1956. It is not recommended.

Parkland placed fourth in yield in this zone in each of the years 1955 and 1956. Since its malting qualities are not particularly valuable in this area, and it is generally outyielded by some of the feed varieties, it is not recommended.

Titan was outyielded by the other four varieties tested and it is not recommended.

Table No. 34—Summarized Results for Zone 1B

(5 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	69.9	65.2	70.4	80.3	66.3
Days from seeding to ripening	92.7	94.7	92.7	93.7	90.3
Height of plants in inches	33.4	36.4	36.8	34.6	32.6
Straw strength (maximum of 1)	2.6	2.9	1.8	2.3	2.3
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.2	2.4	1.3	1.8	1.6
Bushel weight in pounds	49.8	49.8	47.8	48.4	47.2
Commercial grades in percentage: 1 C.W. 6R	—	60.0	—	—	—
1 Feed	80.0	20.0	80.0	80.0	80.0
2 Feed	20.0	—	20.0	20.0	—
3 Feed	—	20.0	—	—	20.0

Necessary difference—3.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1B

Vantage placed first in yield in this zone in the years 1955 and 1956. It appears well adapted to this area and is officially recommended.

Vantmore placed second in 1956 but was fourth in this zone in 1954. It is still under test in this area and as yet is not officially recommended.

Husky placed third in this zone in 1956. It has yielded quite well during a number of recent years, but it has some tendency to shatter. It is not recommended for the zone.

Titan placed fourth in this zone in 1956. It has been outyielded by Vantage and Husky during a number of recent years when moisture supplies in this area have been good. However, in most years rainfall in this area can be expected to be limited and the drought resistance of Titan is valuable. For this reason, Titan has been retained in the recommendations for the zone.

Parkland was outyielded by the other four varieties tested in 1956 and it placed fourth in the previous year.

In addition to the recommended varieties mentioned above, Compana is also officially recommended for the zone.

Table No. 35—Summarized Results for Zone 1C

(6 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	47.8	41.3	46.5	54.4	43.3
Days from seeding to ripening	102.2	101.2	97.2	97.6	96.2
Height of plants in inches	31.3	35.3	32.5	32.5	29.0
Straw strength (maximum of 1)	2.1	2.1	1.4	1.5	1.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	2.4	1.2	1.4	1.1
Bushel weight in pounds	47.9	48.9	46.4	46.7	46.3
Commercial grades in percentage: 1 C.W. 6R	—	14.3	—	—	—
2 C.W. 6R	—	14.3	—	—	—
3 C.W. 6R	—	42.8	—	—	—
1 Feed	71.4	14.3	42.9	85.7	42.9
2 Feed	14.3	14.3	57.1	—	57.1
3 Feed	14.3	—	—	14.3	—

Necessary difference—2.4 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1C

Vantage placed first in yield in this zone in 1956 and also during the previous year. It appears well adapted to the area and is officially recommended.

Husky placed second in this zone in 1956. It has yielded quite well in Wheat Pool tests in this zone for several years, but has some tendency to shatter. It is not officially recommended for Zone 1C.

Vantmore placed third in this zone in 1956. It has not been previously tested by the Wheat Pool in this zone, but in other tests its performance to date has not been sufficiently good to recommend it.

Titan placed fourth in yield in 1956. As mentioned in the discussion of Zone 1B, drought resistance is quite an important factor in this portion of the province and since Titan is noted for its drought resistance it is officially recommended for the zone.

Parkland was outyielded by the other four varieties tested in this zone in 1956.

In addition to the recommended varieties mentioned above, Compana is also officially recommended for this zone.

Table No. 36—Summarized Results for Zone 1D

(3 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	29.7	25.0	38.2	34.1	35.5
Days from seeding to ripening	99.5	101.0	99.5	100.5	94.0
Height of plants in inches	26.0	28.0	26.0	27.0	21.0
Straw strength (maximum of 1)	5.7	4.7	5.7	6.0	5.2
Neck strength (Basis: 1-strong, 2-medium, 3-weak)	2.0	2.4	2.0	2.0	2.0
Bushel weight in pounds	49.0	50.3	47.0	48.3	45.7
Commercial grades in percentage: 1 C.W. 6R	—	33.3	—	—	—
1 Feed	100.0	66.7	66.7	100.0	66.7
2 Feed	—	—	33.3	—	33.3

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 1D

Vantmore placed first in yield in this zone in 1956, its first year of testing by the Wheat Pool in this zone. It appears to have some adaptation in this area, but requires further testing.

Titan placed second in yield in 1956, but placed fourth in 1953, the last year it was tested in this zone by the Wheat Pool. Titan is early and drought resistant, but has generally been outyielded by Vantage and Husky in this zone. It is not recommended.

Vantage placed third in yield in this zone in 1956, but it placed first in the previous year. It has performed well in other tests in this area and is officially recommended.

Husky placed fourth in this zone in the year under review, but it placed first in 1953 and 1954 and second in 1955. It is recommended for the zone.

Parkland ranked fifth in yield in this zone in 1956 and placed third in the previous year. It is still undergoing tests in this area, but in general does not appear adapted.

Garth Simpson of Shaunavon is making a careful comparison of two barley varieties in early fall.

Table No. 37—Summarized Results for Zone 2A
(2 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	55.7	53.3	45.1	52.9	55.1
Days from seeding to ripening	88.0	87.0	86.0	87.0	87.0
Plant height in inches	24.0	24.5	22.0	22.5	26.5
Straw strength (maximum of 1)	1.7	2.4	1.4	1.7	2.2
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.2	2.8	1.5	1.2	2.0
Bushel weight in pounds	49.5	49.0	47.5	47.5	49.0
Commercial grades in percentage: 1 C.W. 6R	—	50.0	—	—	50.0
3 C.W. 6R	—	—	—	—	50.0
1 Feed	100.0	—	50.0	50.0	—
2 Feed	—	50.0	50.0	50.0	—

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2A

Husky outyielded the other varieties tested in this zone in 1956. It placed second in each of the two previous years and is officially recommended for the zone.

Montcalm placed second in this zone in 1956. It has not been tested in this zone by the Wheat Pool for a number of years, so previous data is not available. However, since Montcalm has weak straw and is susceptible to stem rust it is not recommended for the zone.

Parkland placed third in this zone in 1956, where it placed first in the previous year. It appears to have some adaptation to this area, but further testing is required before any recommendation can be made.

Vantage placed fourth in yield in this zone in 1956. In previous years testing it performed well in this area, placing second in 1953 and tying for first place in 1952. It is officially recommended for the zone.

Vantmore placed fifth in yield in the year under review, but in 1954 it placed first and in 1955 it placed third. It is officially recommended for the zone.

In addition to the recommended varieties mentioned above, Velvon 11 is also officially recommended.

Table No. 38—Summarized Results for Zone 2B

(4 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	65.5	56.9	57.1	60.7	50.2
Days from seeding to ripening	95.8	94.3	93.3	95.0	92.0
Height of plants in inches	33.0	34.8	33.2	32.4	28.2
Straw strength (maximum of 1)	2.6	3.5	2.4	1.9	1.9
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	2.6	1.7	1.4	1.8
Bushel weight in pounds	49.3	50.8	48.3	48.0	46.7
Commercial grades in percentage: 1 C.W. 6R	—	16.7	—	—	—
2 C.W. 6R	—	83.3	—	—	—
1 Feed	100.0	—	100.0	83.3	66.7
2 Feed	—	—	—	16.7	33.3

Necessary difference—3.7 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2B

Husky outyielded the other varieties tested in this zone in each of the past three years. It is well adapted to the area and is officially recommended.

Vantage placed second in yield in 1956. In the previous four years it placed first once, second once and third twice. It is officially recommended.

Vantmore placed third in yield in 1956 and second in 1954. In both years it was substantially outyielded by Husky. It is not recommended.

Parkland placed fourth in yield in 1956, although it was second in the previous year. In other tests it has proven to be adapted to this area and it is officially recommended.

Titan was outyielded by the other four varieties tested in 1956. It placed fourth in the years 1952 and 1953, the last years it was tested by the Wheat Pool in this zone. It is not recommended.

Cereal Variety Zone 2C

Only one satisfactory test was conducted in this zone in 1956. It was conducted by Victor Meyer and Herman Kemper, of Stone and can be found in the section "Individual Summarized Results of All Tests—Barley" on page 60.

The recommended varieties for Zone 2C are Titan and Vantage.

Table No. 39—Summarized Results for Zone 2D

(10 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Titan
Yield in bushels per acre	51.1	40.8	44.0	50.8	43.4
Days from seeding to ripening	93.8	93.9	94.4	94.3	87.1
Height of plants in inches	33.4	36.1	32.3	32.7	30.1
Straw strength (maximum of 1)	1.9	2.0	1.7	2.0	3.0
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.7	1.9	1.3	1.4	1.7
Bushel weight in pounds	48.6	49.5	46.0	48.8	46.3
Commercial grades in percentage: 1 C.W. 6R	—	25.0	—	—	—
2 C.W. 6R	—	8.3	—	—	—
3 C.W. 6R	—	33.4	—	—	—
1 Feed	91.7	25.0	66.8	75.0	50.0
2 Feed	—	—	16.6	16.7	33.3
3 Feed	8.3	8.3	16.6	8.3	16.7

Necessary difference—2.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2D

Husky outyielded the other varieties tested in this zone in 1956. It per-

formed well in a number of previous years as well and is officially recommended.

Vantage placed second in yield in this zone in 1956. It placed second in two previous years and placed first in one. Vantage is officially recommended.

Vantmore placed third in 1956 and was considerably lower in yield than the two varieties mentioned above. It placed fourth in 1954 and is not recommended for the zone.

Titan placed fourth in yield in this zone in 1956 and also in the two years 1952 and 1953. It is not recommended for this zone.

Parkland placed fifth of the five varieties tested in 1956. In the previous year it placed first in this zone. This variable performance shows the need for further testing before any recommendations can be made for it in this zone.

In addition to the recommended varieties mentioned above, Velvon 11 is also officially recommended.

Table No. 40—Summarized Results for Zone 2E

(2 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	61.8	72.7	70.9	70.9	84.2
Days from seeding to ripening	100.5	96.5	96.5	97.0	97.5
Height of plants in inches	39.5	41.5	38.5	39.5	42.0
Straw strength (maximum of 1)	4.0	2.2	1.5	3.1	3.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.5	2.0	1.0	1.0	1.5
Bushel weight in pounds	49.0	50.5	47.5	47.5	49.5
Commercial grades in percentage: 2 C.W. 6R	—	100.0	—	—	50.0
3 C.W. 6R	—	—	—	—	50.0
1 Feed	100.0	—	50.0	50.0	—
2 Feed	—	—	50.0	50.0	—

Necessary difference—5.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 2E

Montcalm outyielded the other varieties tested in this zone in 1956. It has not been tested by the Wheat Pool in this area for a number of years, but its weak straw and susceptibility to stem rust are serious handicaps in this zone. It is not recommended.

Parkland placed second in this zone in each of the past two years. On the basis of these results it appears to be adapted to the zone, but further testing must be done before a recommendation can be made.

Vantmore and **Vantage** yielded equally well in this zone in 1956. Both these varieties have performed well in previous years testing by the Wheat Pool and both are officially recommended for the zone.

Husky was outyielded by the other four varieties tested in this zone in 1956. It placed fourth in two and third in one of the three previous years.

Table No. 41—Summarized Results for Zone 3A

(4 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	54.7	48.3	49.8	49.5	56.0
Days from seeding to ripening	73.0	76.0	75.5	79.0	79.5
Height of plants in inches	25.0	26.0	26.0	28.0	25.0
Straw strength (maximum of 1)	4.4	4.4	3.0	1.4	1.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.7	2.0	1.4	2.2	1.8
Bushel weight in pounds	48.6	50.4	48.2	47.4	48.8
Commercial grades in percentage: 1 C.W. 6R	—	20.0	—	—	—
2 C.W. 6R	—	60.0	—	—	60.0
3 C.W. 6R	—	20.0	—	—	40.0
1 Feed	100.0	—	100.0	100.0	—

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3A

Montcalm placed first in yield in this zone in 1956. It also performed well in the three years 1950 to 1952. However, this variety is subject to damage from stem rust in this area and it is not recommended.

Husky placed second in yield in 1956, and except for 1955, when it placed fourth, it has performed well in this zone for a number of years. It is officially recommended.

Vantmore placed third in this zone in 1956, where it placed either first or second in each of the two previous years. It appears to be adapted to this zone and is officially recommended.

Vantage ranked fourth in this zone in 1956. However, it performed well in this zone during several previous years and is officially recommended.

Parkland was outyielded by the other varieties tested in this zone in 1956, although in the previous year it placed first. Further testing is required before any recommendation can be made.

In addition to the recommended varieties discussed above, Velvon 11 is officially recommended.

Table No. 42—Summarized Results for Zone 3B

(4 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	78.6	69.0	62.2	62.6	66.6
Days from seeding to ripening	94.5	92.8	93.5	94.3	93.0
Height of plants in inches	39.3	41.5	41.0	39.0	42.5
Straw strength (maximum of 1)	2.0	3.0	1.7	2.6	3.8
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.5	1.7	1.1	1.2	2.3
Bushel weight in pounds	48.4	49.4	45.8	46.6	47.0
Commercial grades in percentage: 2 C.W. 6R	—	40.0	—	—	20.0
3 C.W. 6R	—	60.0	—	—	60.0
1 Feed	80.0	—	60.0	80.0	—
2 Feed	20.0	—	20.0	20.0	20.0
3 Feed	—	—	20.0	—	—

Necessary difference—5.3 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3B

Husky outyielded the other four varieties tested in 1956. It placed either first or second in each of four years previous testing by the Wheat Pool in this zone and is officially recommended.

Parkland placed second in 1956 and first in 1955 in this zone. This variety's rust resistance and strong straw are valuable assets in this zone where considerable quantities of malting barley are grown. It is officially recommended for this zone for 1957.

Montcalm ranked third in this zone in 1956. Because of its weak straw and its susceptibility to rust it is not recommended.

Vantage placed fourth in this zone in 1956. It was somewhat lower in yield than Husky in Wheat Pool tests during 1952 and 1953, but it is still officially recommended.

Vantmore placed fifth of the five varieties tested in this zone in 1956 and it placed fourth in 1955. It is not recommended.

In addition to the recommended varieties listed above, Velvon 11 is also officially recommended.

Table No. 43—Summarized Results for Zone 3C

(6 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	65.4	58.7	56.6	60.3	65.7
Days from seeding to ripening	89.3	87.5	87.5	87.7	88.5
Height of plants in inches	38.4	40.3	39.1	38.8	41.0
Straw strength (maximum of 1)	3.5	4.0	2.3	2.8	4.0
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	2.2	1.4	1.7	2.3
Bushel weight in pounds	48.6	50.8	47.4	47.7	49.0
Commercial grades in percentage: 1 C.W. 6R	—	22.3	—	—	—
2 C.W. 6R	—	33.3	—	—	44.4
3 C.W. 6R	—	33.3	—	—	44.4
1 Feed	100.0	11.1	100.0	88.9	11.2
2 Feed	—	—	—	11.1	—

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3C

Montcalm outyielded the other varieties tested in this zone in 1956. It also yielded well during several former years testing by the Wheat Pool in this area, but because of its susceptibility to rust and its lack of straw strength, it was dropped from the official recommendations in favor of Parkland.

Husky placed second in yield in 1956. During five previous years testing by the Wheat Pool it placed either first or second in each year. Husky is officially recommended for the zone.

Vantage placed third in yield in 1956. It placed second in this zone in 1953 and third in each of the two years before that. It is officially recommended for the zone.

Parkland placed fourth in this zone in 1956, but it placed first in the previous year. Because of its rust resistance and its straw strength, it replaced Montcalm as the recommended malting variety for this area for 1957.

Vantmore was outyielded by the other varieties tested in this zone in 1956. It performed somewhat better in the two previous years, but is not recommended for this zone.

The whole family takes an interest in Gordon Smith's variety test at Climax.

Table No. 44—Summarized Results for Zone 3D

(4 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	56.8	58.2	47.8	51.5	57.2
Days from seeding to ripening	94.7	93.3	94.8	94.5	94.3
Height of plants in inches	39.2	41.0	39.4	39.6	41.6
Straw strength (maximum of 1)	2.3	3.0	2.4	2.0	3.9
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.6	1.7	1.6	1.6	1.8
Bushel weight in pounds	47.3	49.2	46.2	46.5	47.0
Commercial grades in percentage: 1 C.W. 6R	—	—	—	—	16.7
2 C.W. 6R	—	33.3	—	—	—
3 C.W. 6R	—	33.3	—	—	33.2
1 Feed	66.6	16.7	66.7	50.0	16.7
2 Feed	16.7	16.7	33.3	50.0	16.7
3 Feed	16.7	—	—	—	16.7

Necessary difference—4.5 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3D

Parkland outyielded the other varieties tested in this zone in both 1955 and 1956. Because of its malting quality, rust resistance and straw strength, it is expected to be suitable to this area and is officially recommended.

Montcalm placed second in this zone in 1956. It usually yields well in this area, but due to its rust susceptibility and its weak straw, it was replaced by Parkland in the official recommendations for the zone.

Husky ranked third in this zone in 1956. It placed either first or second in four of the previous five years. It is well adapted to the area and is officially recommended.

Vantage placed fourth in yield in this zone in 1956. It has not been tested by the Wheat Pool in this zone for several years, but previous to that it yielded quite well and is officially recommended.

Vantmore was outyielded by the other varieties tested in 1956. It placed fourth in 1955 and third in 1954. It is not recommended.

In addition to the recommended varieties discussed above, Hannchen is also officially recommended for Zone 3D.

Table No. 45—Summarized Results for Zone 3E

(3 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	64.0	63.0	56.8	60.8	67.0
Days from seeding to ripening	103.0	102.0	101.0	103.0	103.0
Height of plants in inches	30.0	28.0	29.0	26.0	31.0
Straw strength (maximum of 1)	2.2	2.8	2.8	3.6	2.6
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.8	2.0	3.0	3.0	2.6
Bushel weight in pounds	49.5	50.5	46.8	47.8	49.8
Commercial grades in percentage: 3 C.W. 6R	—	50.0	—	—	25.0
1 Feed	100.0	50.0	75.0	75.0	50.0
2 Feed	—	—	25.0	25.0	25.0

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3E

Montcalm outyielded the other varieties tested in this zone in 1956. It has not been tested by the Wheat Pool in this zone for a number of years, but during the three years 1950-52 it performed well in this area. It is officially recommended.

Husky placed second in yield in 1956. It placed first in four of the previous five years in which it was tested by the Wheat Pool in this area. Husky is officially recommended for the zone.

Parkland placed third in yield in both 1955 and 1956. It requires further testing in this area to determine its adaptability.

Vantage placed fourth in yield in this zone in 1956, although in previous years testing it performed relatively better. It was not tested by the Wheat Pool in this zone in 1954 and 1955. In 1950 and 1951 it placed third. In 1952 it placed first and in 1953 it placed second. Vantage is officially recommended.

Vantmore was outyielded by the other four varieties tested in 1956.

Table No. 46—Summarized Results for Zone 3F

(5 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	51.0	46.0	43.5	49.3	52.2
Days from seeding to ripening	96.3	92.0	93.3	94.0	92.0
Height of plants in inches	35.0	36.0	35.7	34.3	36.3
Straw strength (maximum of 1)	2.1	3.3	2.4	3.0	4.0
Neck strength (basis:1-strong, 2-medium, 3-weak)	1.5	2.2	1.5	1.7	2.2
Bushel weight in pounds	48.6	50.0	46.6	48.2	48.4
Commercial grades in percentage: 3 C.W. 6R	—	60.0	—	—	60.0
1 Feed	80.0	40.0	60.0	100.0	20.0
2 Feed	20.0	—	40.0	—	20.0

Necessary difference—2.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3F

Montcalm outyielded the other four varieties tested in this zone in 1956. It placed first in this zone in 1951 and second in 1952, the last years it was tested in this area by the Wheat Pool. Montcalm is officially recommended for the zone.

Husky was only slightly lower in yield than Montcalm in 1956. It placed first or second in four of the five previous years in this zone and is officially recommended.

Vantage placed third in this zone in 1956. It has performed quite well in this zone in a number of years and is officially recommended.

Parkland placed fourth in 1956, where in the previous year it placed first. Malting barley is quite an important crop in this area and since rust resistance and straw strength are both quite important. Parkland is officially recommended.

Vantmore was outyielded by the other four varieties tested in this zone in 1956. It performed somewhat better than this in the two previous years but is not officially recommended.

In addition to the recommended varieties discussed above, Hannchen is also officially recommended.

Table No. 47—Summarized Results for Zone 3G

(8 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	52.3	45.7	47.5	52.9	49.9
Days from seeding to ripening	97.5	94.0	93.5	93.5	92.5
Height of plants in inches	36.6	38.9	35.1	34.3	37.9
Straw strength (maximum of 1)	2.1	1.7	2.0	2.5	3.5
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.1	2.0	1.2	1.6	2.2
Bushel weight in pounds	46.0	47.5	45.8	46.8	46.4
Commercial grades in percentage: 1 C.W. 6R	—	12.5	—	—	12.5
3 C.W. 6R	—	12.5	—	—	12.5
1 Feed	62.5	37.5	62.5	75.0	37.5
2 Feed	—	12.5	12.5	—	12.5
3 Feed	37.5	25.0	25.0	25.0	25.0

Necessary difference—2.9 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3G

Vantage outyielded the other varieties tested in this zone in 1956. It was not tested in this zone in 1954 or 1955, but previous to that it performed well and it is officially recommended.

Husky placed second in yield in this zone in 1956. In four years previous testing it placed first twice and second twice. Husky is well adapted to the area and is officially recommended.

Montcalm placed third in this zone in 1956. It has not been tested in this area by the Wheat Pool for a number of years. Montcalm is not recommended in Zone 3G.

Vantmore placed fourth in yield in 1956. In 1954 it placed fourth and in 1955 it placed second. It is not recommended.

Parkland was outyielded by the other four varieties tested in this zone in 1956. It placed third in the previous year. It is not officially recommended.

Table No. 48—Summarized Results for Zone 3H

(2 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	61.8	52.9	49.9	58.0	57.3
Days from seeding to ripening	95.0	92.0	92.0	92.0	92.0
Height of plants in inches	33.0	35.0	32.0	31.0	36.0
Straw strength (maximum of 1)	2.2	3.2	1.6	1.0	3.2
Neck strength (basis: 1-strong, 2-medium, 3-weak)	—	—	—	—	—
Bushel weight in pounds	47.0	54.5	46.0	47.0	46.0
Commercial grades in percentage: 1 Feed	100.0	100.0	100.0	100.0	100.0

Necessary difference—5.0 bushels.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3H

Husky outyielded the other varieties tested in this zone in 1956. Zone 3H occupies a small area and reliable yield results are not available each year. On the basis of other tests Husky is officially recommended for Zone 3H.

Vantage placed second in yield in 1956. It appears to be well adapted to the area and is officially recommended.

Montcalm placed third in this zone in 1956. It is not officially recommended for Zone 3H.

Parkland placed fourth in yield in 1956. It is not recommended for the zone.

Vantmore was outyielded by the other four varieties tested and is not recommended.

Table No. 49—Summarized Results for Zone 3J

(4 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	45.7	42.8	44.5	42.6	47.1
Days from seeding to ripening	100.5	95.0	96.5	96.5	96.0
Height of plants in inches	27.3	30.0	27.0	25.7	32.0
Straw strength (maximum of 1)	1.8	1.7	1.3	1.2	1.9
Neck strength (basis: 1-strong, 2-medium, 3-weak)	2.0	2.2	1.1	1.3	2.0
Bushel weight in pounds	46.5	49.5	46.5	47.3	48.0
Commercial grades in percentage: 1 Feed	75.0	100.0	75.0	100.0	75.0
2 Feed	—	—	25.0	—	—
3 Feed	25.0	—	—	—	25.0

No significant grain yield difference between varieties.

YIELD PERFORMANCE DURING RECENT YEARS—ZONE 3J

Montcalm outyielded the other four varieties tested in this zone in 1956. It has not been tested previously in this zone by the Wheat Pool, but in other tests it has performed well and is officially recommended.

Husky placed second in this zone in 1956. It placed first or second in each of the three previous years and is officially recommended for the zone.

Vantmore placed third in yield in 1956. In 1954 it placed fourth and and in 1955 it placed third. It does not appear particularly adapted to the zone and is not recommended.

Parkland placed fourth in yield in this zone in 1956, where it placed second in 1955. It has performed well in other tests in the zone and is officially recommended.

Vantage placed fifth in this zone in 1956. It has not been tested by the Wheat Pool in this zone for several years, but in other tests it has performed well and it is officially recommended.

Table No. 50—Summarized Results for Zone 4A

(2 satisfactory tests)

	Husky	Parkland	Vantmore	Vantage	Montcalm
Yield in bushels per acre	40.1	36.1	37.8	39.3	37.5
Days from seeding to ripening	84.0	79.0	80.0	80.0	78.0
Height of plants in inches	31.0	36.0	29.0	31.0	37.0
Straw strength (maximum of 1)	1.0	4.2	1.0	1.0	5.2
Neck strength (basis: 1-strong, 2-medium, 3-weak)	1.0	1.8	1.0	1.0	2.0
Bushel weight in pounds	41.5	40.0	41.5	40.0	40.0
Commercial grades in percentage: 3 C.W. 6R	—	50.0	—	—	—
2 Feed	50.0	—	50.0	50.0	50.0
3 Feed	50.0	50.0	50.0	50.0	50.0

No significant grain yield difference between varieties.

Husky outyielded the other four varieties tested in 1956. It placed first in yield during each of the previous three years testing in this zone and is officially recommended.

Vantage placed second in this zone in 1956. It has performed well in this area for a number of years and is officially recommended.

Vantmore placed third in yield in 1956. No recent yield data on this variety is available from Wheat Pool tests in this zone. Vantmore is not recommended for Zone 4A.

Montcalm placed fourth in yield in this zone in 1956. Because of its weak straw it is not recommended.

Parkland placed fifth in yield in 1956. No previous yield results are available from Wheat Pool tests, but in other tests it has performed well. Because of this and because it has greater straw strength than Montcalm, it is officially recommended for the zone.

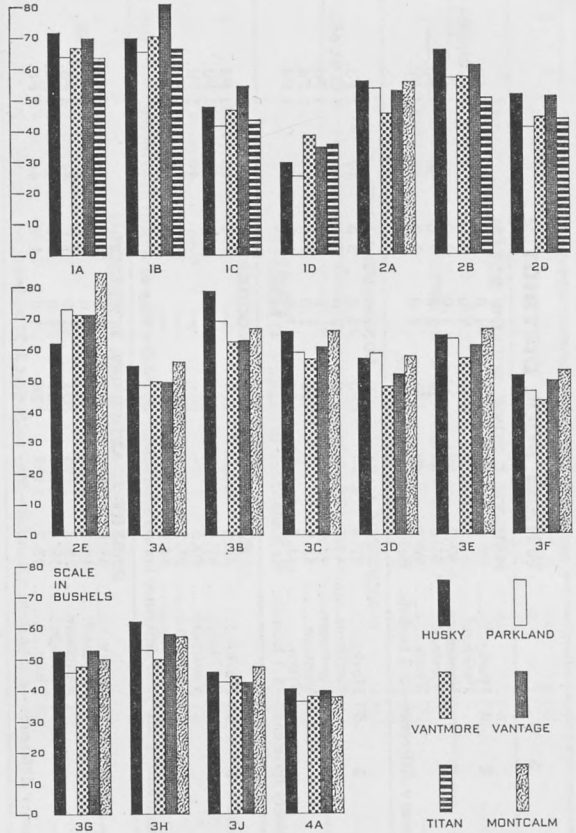
Cereal Variety Zone 4B

Only one successful test was conducted in this zone in 1956. It was supervised by Ernest Hannis of Frenchman Butte and can be found in the section: "Individual Summarized Results of All Tests—Barley" on page 70.

The varieties officially recommended for the zone are Husky, Vantage and Velvon 11.

Bill Adam shows the height of the barley in his test at Nobleville.

GRAPHS SHOWING BARLEY YIELDS BY CEREAL VARIETY ZONES



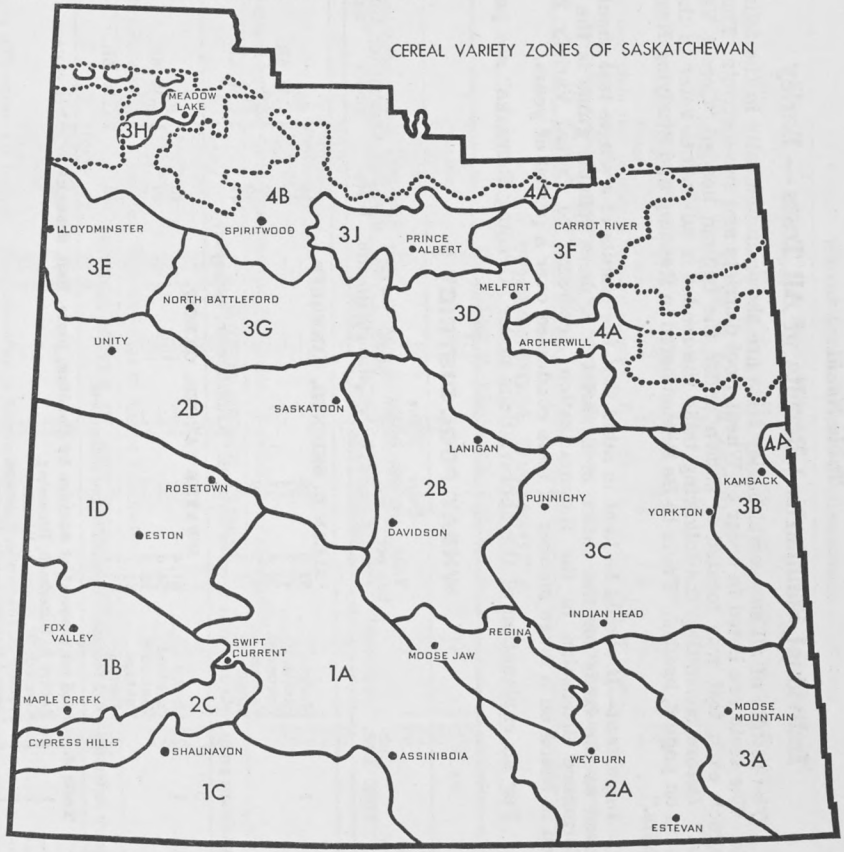


Table No. 51

Individual Summarized Results of All Tests — Barley

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 6, headed, "Facts to Be Remembered in Reading and Studying Results." Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			ALLAN R. SKINNER, CARNDUFF								
3A	1	1	Husky	52.0	68	—	—	—	47	1 Fd.	—
			Parkland	47.2	74	—	—	—	49	2 C.W. 6R.	—
			Vantmore	54.4	72	—	—	—	48	1 Fd.	—
			Vantage	48.5	79	—	—	—	46	1 Fd.	—
			Montcalm	51.6	81	—	—	—	49	2 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			DWAYNE BARBER, OXBOW								
3A	1	3	Husky	61.4	—	—	—	—	49	1 Fd.	—
			Parkland	54.4	—	—	—	—	49	2 C.W. 6R.	—
			Vantmore	52.3	—	—	—	—	47	1 Fd.	—
			Vantage	53.3	—	—	—	—	47	1 Fd.	—
			Montcalm	65.7	—	—	—	—	48	2 C.W. 6R.	—
Necessary difference—6.2 bushels. Rainfall record incomplete.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
3A	1	4	Robert A. Luterbach, Browning.								
2A	1	5	Kenneth W. Seeman, Woodley.								
2A	1	8	Howard E. Johnsrude, Talmage.								
2A	1	9	Lenard Vandermeulen, Forget.								

WHEAT POOL DISTRICT 2

			MERLYN J. EGER, WILLOW BUNCH								
1A	2	4	Husky	99.6	88	28	1.0	1.0	50	1 Fd.	—
			Parkland	87.2	88	36	1.0	2.0	51	1 C.W. 6R.	—
			Vantmore	87.2	88	30	1.0	1.0	47	1 Fd.	—
			Vantage	93.6	89	28	1.0	1.0	50	1 Fd.	—
			Titan	90.8	80	32	1.0	1.0	48	1 Fd.	—
Necessary difference—6.3 bushels. Rainfall record incomplete.											
			KENNETH A. BENNETT, LONESOME BUTTE								
1C	2	5	Husky	47.4	—	30	2.0	3.0	49	1 Fd.	—
			Parkland	44.7	—	30	2.0	3.0	50	1 C.W. 6R.	—
			Vantmore	43.0	—	30	1.2	1.0	47	1 Fd.	—
			Vantage	53.2	—	30	1.0	1.8	48	1 Fd.	—
			Titan	44.7	—	24	1.0	1.0	46	1 Fd.	—
Necessary difference—5.1 bushels. Rainfall—May to August 6.47 inches.											
			HARVEY L. FILSON, WOODROW								
1A	2	6	Husky	49.2	—	—	—	—	48	1 Fd.	—
			Parkland	41.4	—	—	—	—	52	1 Fd.	F.
			Vantmore	40.5	—	—	—	—	44	2 Fd.	—
			Vantage	51.2	—	—	—	—	50	1 Fd.	—
			Titan	44.6	—	—	—	—	49	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.18 inches.											
			ALBERT A. ANDERSON, LIMERICK								
1C	2	7	Husky	53.0	106	32	2.0	1.0	48	1 Fd.	—
			Parkland	48.2	105	36	1.0	1.5	49	2 C.W. 6R.	—
			Vantmore	55.2	105	33	1.0	1.0	44	2 Fd.	—
			Vantage	59.4	106	31	1.0	1.0	46	1 Fd.	—
			Titan	42.2	105	26	1.0	1.0	44	2 Fd.	—
Necessary difference—4.8 bushels. Rainfall—May to August 5.57 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			LYNN W. LOWES, ASSINIBOIA								
1A.....	2	8	Husky.....	59.8	99	28	1.6	1.6	51	1 Fd.	—
			Parkland.....	57.4	95	29	3.6	2.0	52	1 C.W. 6R.	—
			Vantmore.....	61.0	99	26	1.6	1.0	50	1 Fd.	—
			Vantage.....	65.7	98	28	2.4	2.0	50	1 Fd.	—
			Titan.....	53.4	94	25	2.6	1.0	50	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.08 inches.											
			Tests discarded on account of damage by flooding, pests, hail, drought or other causes								
1A.....	2	10	Albert E. Webb, Amulet.								

WHEAT POOL DISTRICT 3

			DOUGLAS G. PEARSON, RELIANCE								
1C.....	3	1	Husky.....	44.7	112	32	1.6	—	53	1 Fd.	—
			Parkland.....	44.7	112	37	1.8	—	54	3 C.W. 6R.	I.
			Vantmore.....	51.9	95	32	1.0	—	52	1 Fd.	—
			Vantage.....	61.4	95	34	1.0	—	52	1 Fd.	—
			Titan.....	49.0	95	29	1.2	—	53	1 Fd.	—
Necessary difference—6.1 bushels. Rainfall—May to August 7.20 inches.											
			ROGER L. HANSEN, ORKNEY								
1C.....	3	2	Husky.....	—	—	—	—	—	50	1 Fd.	—
			Parkland.....	—	—	—	—	—	51	1 Fd.	F.
			Vantmore.....	—	—	—	—	—	48	1 Fd.	—
			Vantage.....	—	—	—	—	—	48	1 Fd.	—
			Titan.....	—	—	—	—	—	48	1 Fd.	—
Test damaged by hail—yields not scientifically reliable. Rainfall record incomplete.											
			J. MILTON BROWN, CLIMAX								
1C.....	3	3	Husky.....	36.9	104	25	—	1.0	50	1 Fd.	—
			Parkland.....	34.1	101	29	—	2.3	48	3 C.W. 6R.	—
			Vantmore.....	29.3	101	25	—	1.0	45	2 Fd.	—
			Vantage.....	41.1	101	25	—	1.0	47	1 Fd.	—
			Titan.....	29.1	101	24	—	1.0	45	2 Fd.	—
Necessary difference—3.1 bushels. Rainfall—May to August 5.04 inches.											
			VICTOR MEYER JR. AND HERMAN KEMPER, STONE								
2C.....	3	7	Husky.....	41.9	—	31	—	—	50	1 Fd.	—
			Parkland.....	37.8	—	30	—	—	53	1 C.W. 6R.	—
			Vantmore.....	29.4	—	31	—	—	49	1 Fd.	—
			Vantage.....	35.8	—	32	—	—	51	1 Fd.	—
			Titan.....	31.4	—	29	—	—	48	1 Fd.	—
Necessary difference—4.9 bushels. Rainfall—May to August 8.43 inches.											
			GARTH H. SIMPSON, SHAUNAVON								
1C.....	3	8	Husky.....	73.7	98	36	3.0	2.8	44	2 Fd.	—
			Parkland.....	53.4	97	42	4.4	3.0	47	3 C.W. 6R.	—
			Vantmore.....	69.0	95	37	2.2	2.0	45	2 Fd.	—
			Vantage.....	77.7	95	37	2.8	2.0	46	1 Fd.	—
			Titan.....	61.9	91	35	3.0	1.2	45	2 Fd.	—
Necessary difference—9.1 bushels. Rainfall—May to August 7.36 inches.											
			MARLENE M. WERNICKE, CADILLAC								
1C.....	3	9	Husky.....	—	91	33	2.0	2.0	41	3 Fd.	—
			Parkland.....	—	91	38	1.4	2.0	43	2 Fd.	—
			Vantmore.....	—	90	38	1.6	1.0	44	2 Fd.	—
			Vantage.....	—	91	38	1.6	1.4	40	3 Fd.	—
			Titan.....	—	89	36	1.8	1.2	43	2 Fd.	—
Test damaged by cattle—yields not scientifically reliable. Rainfall—May to August 8.19 inches.											

WHEAT POOL DISTRICT 4

			HOWARD J. WEDRICK, CARMICHAEL								
1B.....	4	1	Husky.....	27.0	—	26	3.4	2.4	45	2 Fd.	F.
			Parkland.....	21.4	—	27	2.5	2.8	42	3 Fd.	F.
			Vantmore.....	22.0	—	28	2.2	2.0	44	2 Fd.	F.
			Vantage.....	27.1	—	25	2.0	2.2	44	2 Fd.	F.
			Titan.....	29.3	—	25	3.2	2.4	42	3 Fd.	F.
Necessary difference—4.7 bushels. Rainfall—May to August 8.79 inches.											
			GAYLORD E. THOMSEN, GULL LAKE								
1B.....	4	4	Husky.....	70.7	87	32	2.8	1.8	48	1 Fd.	—
			Parkland.....	76.7	90	34	1.8	1.8	50	1 C.W. 6R.	—
			Vantmore.....	76.3	88	36	1.2	1.4	48	1 Fd.	—
			Vantage.....	84.2	89	33	2.0	1.6	48	1 Fd.	—
			Titan.....	76.7	84	33	2.4	2.0	48	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 9.70 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			GEORGE A. HAW, BATTRUM								
1D	4	5	Husky	37.4	98	26	4.0	2.0	49	1 Fd.	—
			Parkland	28.0	101	28	3.8	2.4	50	1 C.W. 6R.	—
			Vantmore	44.0	100	26	3.4	2.0	47	1 Fd.	—
			Vantage	43.4	100	27	4.0	2.0	48	1 Fd.	—
			Titan	35.3	95	21	4.4	2.0	46	1 Fd.	—
Necessary difference—5.1 bushels. Rainfall—May to August 7.34 inches.											
			DONALD J. TUCHSHERER, HORSHAM								
1B	4	7	Husky	74.1	91	40	2.0	2.0	51	1 Fd.	—
			Parkland	71.1	94	48	3.8	3.0	51	1 C.W. 6R.	—
			Vantmore	75.8	93	45	2.0	1.0	48	1 Fd.	—
			Vantage	95.5	93	43	2.0	2.0	49	1 Fd.	—
			Titan	71.6	92	37	1.0	1.0	47	1 Fd.	—
Necessary difference—6.8 bushels. Rainfall—May to August 8.69 inches.											
			MENDHAM 4-H GRAIN CLUB, MENDHAM								
1B	4	8	Husky	65.8	—	39	1.8	1.8	52	1 Fd.	—
			Parkland	49.3	—	41	2.2	1.6	52	1 Fd.	F.
			Vantmore	70.2	—	40	1.6	1.2	48	1 Fd.	—
			Vantage	74.9	—	41	1.6	1.4	49	1 Fd.	—
			Titan	56.9	—	38	2.8	1.8	48	1 Fd.	—
Necessary difference—14.1 bushels. Rainfall record incomplete.											
			MILTON D. BRAATEN, SHACKLETON								
1B	4	10	Husky	112.0	100	30	3.0	3.0	53	1 Fd.	—
			Parkland	107.3	100	32	4.0	3.0	54	1 C.W. 6R.	—
			Vantmore	107.5	97	35	2.0	1.0	51	1 Fd.	—
			Vantage	119.8	99	31	4.0	2.0	52	1 Fd.	—
			Titan	97.1	95	30	2.0	1.0	51	1 Fd.	—
Necessary difference—8.8 bushels. Rainfall—May to August 5.83 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1B	4	8	Ronald W. Moser, Burstall.								

WHEAT POOL DISTRICT 5

			ARTHUR D. T. KRAUSS, MAZENOD								
1A	5	1	Husky	85.1	—	37	3.2	3.0	48	1 Fd.	—
			Parkland	69.7	—	37	1.8	2.8	52	1 C.W. 6R.	—
			Vantmore	72.9	—	38	2.4	1.6	48	1 Fd.	—
			Vantage	74.5	—	37	5.2	2.6	46	1 Fd.	—
			Titan	69.3	—	36	3.6	1.8	48	1 Fd.	—
Necessary difference—9.1 bushels. Rainfall—May to August 7.14 inches.											
			LAURALINE AND MERVIN FINKBEINER, GLEN BAIN								
1A	5	2	Husky	88.9	—	34	1.4	2.6	47	1 Fd.	—
			Parkland	75.1	—	35	1.4	2.6	50	1 C.W. 6R.	—
			Vantmore	80.2	—	35	1.0	1.0	48	1 Fd.	—
			Vantage	83.8	—	33	1.2	1.4	49	1 Fd.	—
			Titan	70.6	—	30	1.6	2.0	49	1 Fd.	—
Necessary difference—6.9 bushels. Rainfall—May to August 8.46 inches.											
			JEAN E. JORGENSEN, PAMBRUN								
1A	5	3	Husky	54.6	89	33	1.0	2.6	45	2 Fd.	—
			Parkland	58.9	88	38	1.0	3.0	46	3 C.W. 6R.	—
			Vantmore	50.6	89	37	1.0	1.0	44	2 Fd.	—
			Vantage	50.1	87	36	1.0	1.0	43	2 Fd.	—
			Titan	52.1	83	35	1.0	1.0	44	2 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 6.25 inches.											
			HARRY C. NORTHCOTT, WALDECK								
1A	5	4	Husky	76.6	—	30	1.0	1.0	50	1 Fd.	—
			Parkland	64.2	—	38	2.0	2.0	52	1 C.W. 6R.	—
			Vantmore	77.2	—	32	1.0	1.0	50	1 Fd.	—
			Vantage	80.4	—	33	1.0	1.0	51	1 Fd.	—
			Titan	72.5	—	29	1.0	1.0	49	1 Fd.	—
Necessary difference—7.2 bushels. Rainfall record incomplete.											
			PATRICIA A. GROSS, HODGEVILLE								
1A	5	5	Husky	84.7	93	32	5.2	2.4	50	1 Fd.	—
			Parkland	81.7	89	42	3.8	2.2	52	1 C.W. 6R.	—
			Vantmore	77.3	89	35	3.2	1.2	45	2 Fd.	—
			Vantage	73.7	88	36	3.4	1.6	49	1 Fd.	—
			Titan	73.1	81	33	3.0	1.0	42	3 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 5.40 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			PETER C. UNGER, ERNFOLD								
1A.....	5	10	Husky.....	68.3	88	28	1.8	1.8	52	1 Fd.	—
			Parkland.....	64.9	88	28	2.2	2.3	53	3 C.W. 6R.	G.
			Vantmore.....	62.7	88	28	1.4	1.4	50	1 Fd.	—
			Vantage.....	67.9	88	29	2.4	2.0	51	1 Fd.	—
			Titan.....	60.0	84	26	1.6	1.2	50	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.41 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1A.....	5	9	Kenneth A. May, Secretan.								

WHEAT POOL DISTRICT 6

			LEONARD J. GOSKI, CEDOUX								
2A.....	6	1	Husky.....	26.5	88	22	2.4	1.4	46	1 Fd.	—
			Parkland.....	28.6	87	22	2.8	2.6	45	2 Fd.	—
			Vantmore.....	27.7	86	17	1.8	1.0	45	2 Fd.	—
			Vantage.....	33.1	87	19	2.4	1.4	44	2 Fd.	—
			Montcalm.....	30.2	87	26	3.4	2.0	46	3 C.W. 6R.	—
Necessary difference—4.3 bushels. Rainfall record incomplete.											
			STANLEY G. PETRUIC, AVONLEA								
1A.....	6	4	Husky.....	52.4	—	37	1.0	3.0	51	1 Fd.	—
			Parkland.....	53.1	—	37	1.4	3.0	52	1 Fd.	F.
			Vantmore.....	54.1	—	37	1.0	1.0	49	1 Fd.	—
			Vantage.....	59.3	—	36	1.2	2.0	50	1 Fd.	—
			Titan.....	52.1	—	34	1.4	1.8	47	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 12.20 inches.											
			MORLEY G. McGILLIVRAY, PENSE								
2E.....	6	6	Husky.....	55.1	101	45	6.0	1.0	52	1 Fd.	—
			Parkland.....	78.9	96	48	1.4	2.0	53	2 C.W. 6R.	W.
			Vantmore.....	76.9	97	44	2.0	1.0	51	1 Fd.	—
			Vantage.....	78.5	97	46	5.2	1.0	51	1 Fd.	—
			Montcalm.....	86.4	98	49	4.2	1.0	52	2 C.W. 6R.	W.
Necessary difference—8.6 bushels. Rainfall—May to August 7.72 inches.											
			WILLIAM D. MARTIN, REGINA								
2E.....	6	7	Husky.....	68.4	100	34	2.0	2.0	46	1 Fd.	—
			Parkland.....	66.5	97	35	3.0	2.0	48	2 C.W. 6R.	—
			Vantmore.....	64.8	96	33	1.0	1.0	44	2 Fd.	—
			Vantage.....	63.3	97	33	1.0	1.0	44	2 Fd.	—
			Montcalm.....	81.9	97	35	3.0	2.0	47	3 C.W. 6R.	—
Necessary difference—7.5 bushels. Rainfall—May to August 8.11 inches.											
			BROOKLYN T. ANDERSON, INDIAN HEAD								
3C.....	6	8	Husky.....	54.8	—	38	—	—	48	1 Fd.	—
			Parkland.....	49.3	—	37	—	—	49	2 C.W. 6R.	—
			Vantmore.....	47.3	—	35	—	—	47	1 Fd.	—
			Vantage.....	45.6	—	35	—	—	48	1 Fd.	—
			Montcalm.....	45.4	—	39	—	—	47	3 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.39 inches.											

WHEAT POOL DISTRICT 7

			LYLE J. BIRNIE, WAWOTA								
3A.....	7	1	Husky.....	71.0	—	25	4.4	2.4	47	1 Fd.	—
			Parkland.....	65.4	—	26	4.4	2.0	51	2 C.W. 6R.	W.
			Vantmore.....	64.4	—	26	3.0	1.6	47	1 Fd.	—
			Vantage.....	55.1	—	28	1.4	2.4	46	1 Fd.	—
			Montcalm.....	62.4	—	25	1.6	1.8	47	3 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall—May to August 5.25 inches.											
			GARNETT E. SMALLEY, WINDTHORST								
3A.....	7	4	Husky.....	66.7	—	—	—	—	52	1 Fd.	—
			Parkland.....	60.4	—	—	—	—	53	3 C.W. 6R.	W.
			Vantmore.....	56.1	—	—	—	—	51	1 Fd.	—
			Vantage.....	60.9	—	—	—	—	51	1 Fd.	—
			Montcalm.....	65.4	—	—	—	—	51	3 C.W. 6R.	W.
No significant grain yield difference between varieties. Rainfall record incomplete.											
			ELDON B. PIPER, FILLMORE								
2A.....	7	5	Husky.....	84.9	—	26	1.0	1.0	53	1 Fd.	—
			Parkland.....	78.0	—	27	2.0	3.0	53	1 C.W. 6R.	—
			Vantmore.....	62.5	—	27	1.0	2.0	50	1 Fd.	—
			Vantage.....	72.6	—	26	1.0	1.0	51	1 Fd.	—
			Montcalm.....	80.0	—	27	1.0	2.0	52	1 C.W. 6R.	—
Necessary difference—13.3 bushels. Rainfall—May to August 7.76 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			LOUIS MALACH, CANDIAC								
3A	7	6	Husky	38.7	78	—	—	1.0	48	1 Fd.	—
			Parkland	31.0	78	—	—	2.0	50	1 C.W. 6R.	—
			Vantmore	36.5	79	—	—	1.2	48	1 Fd.	—
			Vantage	35.2	79	—	—	2.0	47	1 Fd.	—
			Montcalm	41.2	78	—	—	1.8	49	2 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			JIMMIE L. TUCKER, ROCANVILLE								
3B	7	8	Husky	75.5	91	37	2.6	1.0	50	1 Fd.	—
			Parkland	75.2	90	41	4.2	1.0	50	3 C.W. 6R.	W.
			Vantmore	63.6	92	38	2.8	1.0	49	1 Fd.	—
			Vantage	70.5	92	37	2.8	1.0	48	1 Fd.	—
			Montcalm	80.4	90	40	7.2	2.0	48	3 C.W. 6R.	W.
Necessary difference—8.4 bushels. Rainfall—May to August 12.00 inches.											
			C. KEITH PARK, YARBO								
3C	7	9	Husky	—	—	48	—	—	47	1 Fd.	—
			Parkland	—	—	46	—	—	50	1 Fd.	W.
			Vantmore	—	—	49	—	—	48	1 Fd.	—
			Vantage	—	—	49	—	—	44	2 Fd.	—
			Montcalm	—	—	47	—	—	46	1 Fd.	W.
Test damaged by livestock—yields not scientifically reliable. Rainfall—May to August 11.72 inches.											
			IVAR S. NELSON, DUBUC								
3C	7	10	Husky	69.9	80	41	2.2	2.0	48	1 Fd.	—
			Parkland	59.8	77	44	3.2	2.0	51	2 C.W. 6R.	W.
			Vantmore	60.8	77	44	1.2	1.2	46	1 Fd.	—
			Vantage	68.6	77	44	2.0	1.8	46	1 Fd.	—
			Montcalm	68.3	77	44	3.2	2.0	49	2 C.W. 6R.	W.
Necessary difference—3.8 bushels. Rainfall—May to August 7.48 inches.											
			DAVID E. FREED, DUBUC								
3C	7	11	Husky	69.2	89	34	2.8	2.0	48	1 Fd.	—
			Parkland	68.3	84	39	3.8	2.0	51	1 C.W. 6R.	—
			Vantmore	59.4	90	37	1.4	1.0	46	1 Fd.	—
			Vantage	65.4	90	36	2.2	1.4	48	1 Fd.	—
			Montcalm	76.4	86	38	5.8	2.6	48	2 C.W. 6R.	—
Necessary difference—6.8 bushels. Rainfall—May to August 7.23 inches.											

WHEAT POOL DISTRICT 8

			JOHANNA E. BECKER, STORNOWAY								
3B	8	1	Husky	69.7	91	45	2.0	2.0	50	1 Fd.	—
			Parkland	65.9	89	48	3.0	1.7	50	2 C.W. 6R.	W.
			Vantmore	64.7	88	47	1.3	1.3	46	1 Fd.	—
			Vantage	66.9	89	47	2.7	1.7	47	1 Fd.	—
			Montcalm	69.4	90	50	3.3	2.0	47	3 C.W. 6R.	—
Samples incomplete—yields not included in zone summary. Rainfall—May to August 10.95 inches.											
			GERALD R. KOWAL, WILLOWBROOK								
3C	8	4	Husky	38.8	81	32	9.0	1.2	47	1 Fd.	—
			Parkland	37.5	82	34	7.0	2.0	50	1 C.W. 6R.	—
			Vantmore	39.4	82	34	6.0	1.8	47	1 Fd.	—
			Vantage	40.5	82	34	7.0	2.0	46	1 Fd.	—
			Montcalm	41.5	82	34	7.0	2.0	49	2 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			ALLAN M. ZARAZUN, TINY								
3B	8	6	Husky	63.8	—	—	—	—	45	2 Fd.	—
			Parkland	55.9	—	—	—	—	46	3 C.W. 6R.	—
			Vantmore	48.4	—	—	—	—	42	3 Fd.	—
			Vantage	51.4	—	—	—	—	45	2 Fd.	—
			Montcalm	51.4	—	—	—	—	45	2 Fd.	—
Necessary difference—6.6 bushels. Rainfall—May to August 3.34 inches.											
			DONALD W. SNODGRASS, STURGIS								
3B	8	8	Husky	53.5	89	30	1.0	1.0	48	1 Fd.	W.
			Parkland	45.4	86	33	2.0	2.0	50	3 C.W. 6R.	—
			Vantmore	52.5	88	33	1.0	1.0	47	1 Fd.	—
			Vantage	44.0	90	29	3.0	1.0	46	1 Fd.	—
			Montcalm	46.2	85	32	2.0	3.0	47	3 C.W. 6R.	—
Necessary difference—7.6 bushels. Rainfall—May to August 9.98 inches.											
			BEVERLEY FIALA, HYAS								
3B	8	9	Husky	121.4	107	45	2.4	2.0	49	1 Fd.	—
			Parkland	99.5	106	44	2.6	2.0	51	2 C.W. 6R.	W.
			Vantmore	84.1	106	46	1.6	1.0	45	2 Fd.	—
			Vantage	84.3	106	43	1.8	1.0	47	1 Fd.	—
			Montcalm	88.3	107	48	2.6	2.0	48	2 C.W. 6R.	—
Necessary difference—18.5 bushels. Rainfall—May to August 7.79 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			ALLEN R. ETHIER, ERWOOD								
3F.....	8	11	Husky.....	29.9	—	27	2.4	1.6	47	1 Fd.	—
			Parkland.....	27.0	—	26	4.0	1.8	49	3 C.W. 6R.	W.
			Vantmore.....	27.1	—	31	3.0	1.8	47	1 Fd.	—
			Vantage.....	30.0	—	27	2.8	2.0	47	1 Fd.	—
			Montcalm.....	31.5	—	28	4.4	1.8	47	3 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall—May to August 12.19 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
3B.....	8	2	Gillean H. M. Switzer, Tonkin.								

WHEAT POOL DISTRICT 9

			GEORGEAN KRUSHELNISKI, ITUNA								
3C.....	9	1	Husky.....	66.3	—	—	—	—	48	1 Fd.	—
			Parkland.....	56.4	—	—	—	—	50	3 C.W. 6.R	W.
			Vantmore.....	54.5	—	—	—	—	46	1 Fd.	—
			Vantage.....	59.7	—	—	—	—	50	1 Fd.	—
			Montcalm.....	63.9	—	—	—	—	50	3 C.W. 6R.	W.
No significant grain yield difference between varieties. Rainfall record incomplete.											
			JAMES E. MURRAY, CUPAR								
3C.....	9	2	Husky.....	70.5	100	37	3.8	3.0	51	1 Fd.	—
			Parkland.....	56.9	101	37	5.6	3.0	51	3 C.W. 6R.	W.
			Vantmore.....	62.4	95	37	2.2	1.6	50	1 Fd.	—
			Vantage.....	60.4	95	36	2.4	2.2	50	1 Fd.	—
			Montcalm.....	62.9	101	39	3.2	2.8	51	3 C.W. 6R.	W.
Necessary difference—5.4 bushels. Rainfall—May to August 10.90 inches.											
			MARLENE M. HAYWARD, LEROSS								
3C.....	9	3	Husky.....	77.9	86	38	2.0	2.2	48	1 Fd.	—
			Parkland.....	73.5	83	43	2.4	2.8	51	3 C.W. 6R.	W.
			Vantmore.....	63.2	81	39	1.4	1.0	46	1 Fd.	—
			Vantage.....	67.2	81	40	1.4	1.4	47	1 Fd.	—
			Montcalm.....	81.3	84	44	2.2	2.8	48	3 C.W. 6R.	W.
Necessary difference—10.8 bushels. Rainfall record incomplete.											
			THOMAS R. HALSTEAD, NOKOMIS								
2B.....	9	6	Husky.....	78.1	93	47	3.2	2.0	49	1 Fd.	—
			Parkland.....	75.0	89	49	2.6	3.0	51	2 C.W. 6R.	W.
			Vantmore.....	64.1	87	44	1.2	1.0	47	1 Fd.	—
			Vantage.....	58.5	92	42	3.0	2.0	48	1 Fd.	—
			Titan.....	53.2	85	38	2.0	2.0	45	2 Fd.	—
Necessary difference—5.9 bushels. Rainfall—May to August 8.62 inches.											
			JACK W. S. BLYTH, DAFOE								
2B.....	9	8	Husky.....	69.2	93	36	—	1.0	49	1 Fd.	—
			Parkland.....	54.0	94	36	—	2.0	52	2 C.W. 6R.	—
			Vantmore.....	60.8	92	36	—	1.0	52	1 Fd.	—
			Vantage.....	67.9	93	36	—	1.0	49	1 Fd.	—
			Titan.....	57.2	91	30	—	2.0	49	1 Fd.	—
Necessary difference—7.2 bushels. Rainfall—May to August 8.65 inches.											
			ROBERT O. BILDFELL, FOAM LAKE								
3C.....	9	9	Husky.....	—	100	39	1.4	1.8	52	1 Fd.	—
			Parkland.....	—	98	42	2.0	1.6	54	2 C.W. 6R.	W.
			Vantmore.....	—	100	38	1.8	1.6	51	1 Fd.	—
			Vantage.....	—	101	36	2.0	1.6	50	1 Fd.	—
			Montcalm.....	—	101	43	2.8	1.4	53	2 C.W. 6R.	W.
Test damaged by livestock—yields not scientifically reliable. Rainfall—May to August 10.18 inches.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
3C.....	9	4	Arthur E. Lundell, Strasbourg.								
2B.....	9	5	David J. McKay, Govan.								

WHEAT POOL DISTRICT 10

			GARRY T. SPENCER, PENZANCE								
2B.....	10	1	Husky.....	—	102	18	1.0	2.0	49	1 Fd.	—
			Parkland.....	—	99	21	4.0	3.0	49	2 C.W. 6R.	—
			Vantmore.....	—	99	23	3.0	3.0	46	1 Fd.	—
			Vantage.....	—	100	21	1.0	2.0	48	1 Fd.	—
			Titan.....	—	98	18	1.0	1.0	46	1 Fd.	—
Test damaged by flooding—yields not scientifically reliable. Rainfall—May to August 6.91 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
C. ROBERT WILSON, TUGASKE											
2B.....	10	2	Husky.....	45.6	—	35	5.0	3.0	48	1 Fd.	—
			Parkland.....	44.9	—	37	6.2	3.0	48	2 C.W. 6R.	—
			Vantmore.....	72.5	—	34	4.2	2.0	47	1 Fd.	—
			Vantage.....	77.4	—	34	2.6	1.0	45	2 Fd.	—
			Titan.....	65.6	—	30	3.6	2.0	45	2 Fd.	—
Husky, Parkland, Vantmore damaged—yields not included in zone summary. Rainfall record incomplete.											
JOAN BOTHNER, BEECHY											
1A.....	10	3	Husky.....	66.5	106	29	1.6	2.0	50	1 Fd.	—
			Parkland.....	48.9	105	31	2.0	2.0	52	1 C.W. 6R.	—
			Vantmore.....	71.5	107	28	2.0	1.8	48	1 Fd.	—
			Vantage.....	69.2	107	28	2.2	2.2	49	1 Fd.	—
			Titan.....	58.8	106	28	3.0	2.0	48	1 Fd.	—
Necessary difference—15.2 bushels. Rainfall—May to August 6.99 inches.											
RALPH SJOVOLD, BRATTON											
2D.....	10	5	Husky.....	66.8	89	31	3.0	2.0	49	1 Fd.	—
			Parkland.....	51.3	91	36	2.0	2.0	51	1 C.W. 6R.	—
			Vantmore.....	75.0	93	33	2.0	1.0	47	1 Fd.	—
			Vantage.....	70.3	93	34	2.0	1.0	47	1 Fd.	—
			Titan.....	62.5	87	30	7.0	3.0	47	1 Fd.	—
Necessary difference—13.4 bushels. Rainfall—May to August 9.12 inches.											
DUANE S. BOOK, LOREBURN											
2D.....	10	6	Husky.....	52.5	95	34	—	2.2	50	1 Fd.	—
			Parkland.....	43.3	95	34	—	2.8	51	1 Fd.	F.
			Vantmore.....	53.0	95	34	—	1.0	48	1 Fd.	—
			Vantage.....	57.0	95	34	—	1.0	50	1 Fd.	—
			Titan.....	48.1	90	28	—	1.0	47	1 Fd.	—
Necessary difference—6.6 bushels. Rainfall—May to August 6.60 inches.											
RONALD M. BRIGHTWELL, LIBERTY											
2B.....	10	8	Husky.....	41.2	—	—	—	—	52	1 Fd.	—
			Parkland.....	32.7	—	—	—	—	53	2 C.W. 6R.	W.
			Vantmore.....	42.6	—	—	—	—	51	1 Fd.	—
			Vantage.....	51.6	—	—	—	—	50	1 Fd.	—
			Titan.....	35.7	—	—	—	—	48	1 Fd.	—
Necessary difference—11.4 bushels. Rainfall record incomplete.											
WILLIAM C. LATRACE, TESSIER											
2D.....	10	10	Husky.....	57.8	102	39	1.8	2.2	50	1 Fd.	—
			Parkland.....	46.4	103	40	2.2	2.8	49	1 Fd.	D.
			Vantmore.....	39.2	104	29	1.8	1.6	46	1 Fd.	—
			Vantage.....	53.2	102	30	1.8	2.0	47	1 Fd.	—
			Titan.....	40.3	102	34	2.2	2.0	45	2 Fd.	—
Necessary difference—8.6 bushels. Rainfall record incomplete.											

WHEAT POOL DISTRICT 11

ELWYN E. VERMETTE, ELROSE											
1D.....	11	1	Husky.....	30.7	101	—	7.4	—	48	1 Fd.	—
			Parkland.....	24.4	101	—	5.6	—	50	1 Fd.	F.
			Vantmore.....	37.6	99	—	8.0	—	45	2 Fd.	—
			Vantage.....	28.6	101	—	8.0	—	46	1 Fd.	—
			Titan.....	42.3	93	—	6.0	—	43	2 Fd.	—
Necessary difference—5.0 bushels. Rainfall—May to August 5.96 inches.											
J. EDWARD WARDROP, VALLEY CENTRE											
2D.....	11	7	Husky.....	40.8	—	—	—	—	51	1 Fd.	—
			Parkland.....	36.4	—	—	—	—	51	3 C.W. 6R.	—
			Vantmore.....	38.2	—	—	—	—	48	1 Fd.	—
			Vantage.....	41.1	—	—	—	—	59	1 Fd.	—
			Titan.....	35.9	—	—	—	—	48	1 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 9.69 inches.											
RONALD G. FOX, RUTHILDA											
2D.....	11	8	Husky.....	43.6	—	—	—	—	50	1 Fd.	—
			Parkland.....	28.0	—	—	—	—	51	1 C.W. 6R.	—
			Vantmore.....	32.0	—	—	—	—	47	1 Fd.	—
			Vantage.....	42.0	—	—	—	—	49	1 Fd.	—
			Titan.....	42.3	—	—	—	—	46	1 Fd.	—
Necessary difference—5.5 bushels. Rainfall—May to August 5.95 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
HUGHIE HAWKINS AND ROGER GOLDSMITH, HOOSIER											
1D.....	11	10	Husky.....	20.9	—	—	—	—	50	1 Fd.	—
			Parkland.....	22.6	—	—	—	—	51	1 Fd.	F.
			Vantmore.....	33.1	—	—	—	—	49	1 Fd.	—
			Vantage.....	30.2	—	—	—	—	51	1 Fd.	—
			Titan.....	28.8	—	—	—	—	48	1 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
Tests discarded on account of damage by flooding, pests, hail, drought or other causes											
1D.....	11	5	William H. Warrington, Loverna.								

WHEAT POOL DISTRICT 12

HENRY E. PEIFFER, BIGGAR											
2D.....	12	1	Husky.....	28.1	84	30	—	1.0	49	1 Fd.	—
			Parkland.....	28.0	84	32	—	2.0	50	1 C.W. 6R.	—
			Vantmore.....	24.8	91	28	—	1.0	46	1 Fd.	—
			Vantage.....	28.2	91	29	—	1.0	57	1 Fd.	—
			Titan.....	21.3	71	26	—	1.0	43	2 Fd.	—
Necessary difference—3.1 bushels. Rainfall—May to August 6.39 inches.											
LLOYD B. MAY, REWARD											
2D.....	12	5	Husky.....	37.7	—	—	—	—	51	1 Fd.	—
			Parkland.....	25.2	—	—	—	—	53	1 Fd.	F.
			Vantmore.....	38.1	—	—	—	—	50	1 Fd.	—
			Vantage.....	43.5	—	—	—	—	52	1 Fd.	—
			Titan.....	41.4	—	—	—	—	50	1 Fd.	—
Necessary difference—6.6 bushels. Rainfall record incomplete.											
BILLY SOPYC, TAKO											
2D.....	12	5	Husky.....	50.6	89	27	—	2.0	47	1 Fd.	—
			Parkland.....	36.3	89	27	—	2.0	46	3 C.W. 6R.	—
			Vantmore.....	32.5	87	27	—	2.0	42	3 Fd.	—
			Vantage.....	47.9	88	27	—	2.0	44	2 Fd.	—
			Titan.....	34.7	84	23	—	3.0	42	3 Fd.	—
Necessary difference—9.3 bushels. Rainfall—May to August 4.42 inches.											
JOHN T. BROWN, SENLAC											
2D.....	12	7	Husky.....	76.5	—	29	1.4	1.0	47	1 Fd.	—
			Parkland.....	61.4	—	32	1.0	1.0	49	2 C.W. 6R.	—
			Vantmore.....	48.7	—	28	1.4	1.0	44	2 Fd.	—
			Vantage.....	65.2	—	30	1.0	1.0	44	2 Fd.	—
			Titan.....	59.2	—	30	1.0	1.0	43	2 Fd.	—
Necessary difference—10.0 bushels. Rainfall—May to August 8.09 inches.											
LLOYD J. NICHOL, MARSDEN											
3E.....	12	8	Husky.....	104.3	103	30	2.2	2.8	46	1 Fd.	—
			Parkland.....	112.3	102	28	2.8	2.0	47	3 C.W. 6R.	—
			Vantmore.....	92.9	101	29	2.8	3.0	44	2 Fd.	—
			Vantage.....	103.2	103	26	3.6	3.0	44	2 Fd.	—
			Montcalm.....	110.4	103	31	2.6	2.6	45	2 Fd.	—
Necessary difference—12.1 bushels. Rainfall—May to August 8.38 inches.											
PAUL A. POKEDA, CUT KNIFE											
3E.....	12	9	Husky.....	48.5	—	—	—	—	51	1 Fd.	—
			Parkland.....	43.6	—	—	—	—	53	3 C.W. 6R.	D.
			Vantmore.....	44.1	—	—	—	—	48	1 Fd.	—
			Vantage.....	43.9	—	—	—	—	50	1 Fd.	—
			Montcalm.....	49.2	—	—	—	—	52	3 C.W. 6R.	D.
No significant grain yield difference between varieties. Rainfall record incomplete.											
LAWRENCE J. HANTERMAN, BATTLEFORD											
3G.....	12	10	Husky.....	61.4	99	42	2.2	2.2	53	1 Fd.	—
			Parkland.....	51.9	91	44	2.0	2.2	53	1 Fd.	F.
			Vantmore.....	57.9	94	39	2.2	2.2	51	1 Fd.	—
			Vantage.....	64.0	92	37	2.8	3.0	53	1 Fd.	—
			Montcalm.....	57.6	91	43	3.2	2.2	53	1 Fd.	F.
No significant grain yield difference between varieties. Rainfall—May to August 7.88 inches.											

WHEAT POOL DISTRICT 13

FRED E. EARIS JR., BAY TRAIL											
3D.....	13	1	Husky.....	54.9	99	38	1.0	1.4	48	1 Fd.	—
			Parkland.....	53.0	99	37	1.0	2.0	49	2 C.W. 6R.	—
			Vantmore.....	43.9	99	37	1.0	2.8	46	1 Fd.	—
			Vantage.....	47.0	99	38	1.0	2.6	46	1 Fd.	—
			Montcalm.....	54.7	99	39	1.2	1.8	50	1 C.W. 6R.	—
Necessary difference—5.2 bushels. Rainfall—May to August 8.49 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			DONALD C. EVANS, DUNDURN								
2D.....	13	3	Husky.....	—	99	47	3.0	1.8	43	3 Fd.	H.
			Parkland.....	—	99	51	2.2	1.6	43	3 Fd.	H.
			Vantmore.....	—	100	47	2.0	1.2	43	3 Fd.	H.
			Vantage.....	—	100	46	3.8	1.8	42	3 Fd.	H.
			Titan.....	—	98	43	3.4	2.0	43	3 Fd.	H.
Test damaged by birds—yields not scientifically reliable. Rainfall record incomplete.											
			LIONEL S. MITCHELL, BLUCHER								
2B.....	13	4	Husky.....	73.5	95	29	1.0	2.0	49	1 Fd.	—
			Parkland.....	66.0	95	31	1.0	2.0	52	1 C.W. 6R.	—
			Vantmore.....	61.0	95	29	1.0	1.4	47	1 Fd.	—
			Vantage.....	64.8	95	29	1.0	1.2	48	1 Fd.	—
			Titan.....	54.8	94	25	1.0	1.8	47	1 Fd.	—
Necessary difference—5.4 bushels. Rainfall—May to August 5.70 inches.											
			JOHN GIESBRECHT, WARMAN								
2D.....	13	5	Husky.....	48.3	93	34	2.0	3.0	46	1 Fd.	—
			Parkland.....	39.9	91	35	4.0	3.0	48	3 C.W. 6R.	W.
			Vantmore.....	42.2	91	35	3.0	2.5	45	2 Fd.	—
			Vantage.....	45.8	91	34	3.0	2.5	46	1 Fd.	—
			Titan.....	40.3	88	30	4.5	2.5	45	2 Fd.	—
Test damaged by cattle—yields not included in zone summary. Rainfall record incomplete.											
			C. BERNARD GRAHAM, VANSCOY								
2D.....	13	6	Husky.....	56.8	99	30	3.0	2.0	50	1 Fd.	—
			Parkland.....	51.2	99	38	4.0	3.0	52	3 C.W. 6R.	W.
			Vantmore.....	58.3	94	30	1.0	1.0	46	1 Fd.	—
			Vantage.....	59.2	94	30	1.0	1.0	49	1 Fd.	—
			Titan.....	48.3	77	27	1.0	1.0	57	1 Fd.	—
Necessary difference—7.1 bushels. Rainfall—May to August 5.90 inches.											
			VICTOR REMARCHUK, CUDWORTH								
3G.....	13	9	Husky.....	51.8	—	27	1.0	2.0	39	3 Fd.	H.
			Parkland.....	48.0	—	27	1.0	2.0	44	3 Fd.	H.
			Vantmore.....	48.8	—	25	1.0	1.0	39	3 Fd.	H.
			Vantage.....	47.4	—	25	1.0	1.0	38	3 Fd.	H.
			Montcalm.....	48.9	—	30	4.0	3.0	40	3 Fd.	H.
No significant grain yield difference between varieties. Rainfall record incomplete.											
			JEROME J. R. BEUKER, HUMBOLDT								
3D.....	13	10	Husky.....	44.0	96	36	2.0	2.0	41	3 Fd.	—
			Parkland.....	40.8	95	36	2.0	2.0	45	2 Fd.	—
			Vantmore.....	39.1	95	33	2.0	2.0	44	2 Fd.	—
			Vantage.....	43.4	94	32	2.0	2.0	45	2 Fd.	—
			Montcalm.....	47.9	96	37	3.0	2.0	41	3 Fd.	—
Necessary difference—5.5 bushels. Rainfall—May to August 7.17 inches.											
			WAYNE STEFFEN, MUENSTER								
3D.....	13	11	Husky.....	—	94	40	2.0	1.4	50	1 Fd.	—
			Parkland.....	—	94	43	6.8	1.8	52	1 Fd.	F., G.
			Vantmore.....	—	95	43	4.0	1.0	49	1 Fd.	—
			Vantage.....	—	94	42	2.0	1.2	50	1 Fd.	—
			Montcalm.....	—	96	42	7.8	2.4	51	1 Fd.	F., G.
Test damaged by animals—yields not scientifically reliable. Rainfall—May to August 7.17 inches.											

WHEAT POOL DISTRICT 14

			WAYNE BOURGET, LINTLAW								
4A.....	14	1	Husky.....	50.5	—	—	—	—	40	3 Fd.	—
			Parkland.....	41.1	—	—	—	—	33	3 Fd.	—
			Vantmore.....	44.5	—	—	—	—	40	3 Fd.	—
			Vantage.....	47.3	—	—	—	—	36	3 Fd.	—
			Montcalm.....	40.9	—	—	—	—	36	3 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			DONALD O. WITTIG, WATSON								
3D.....	14	3	Husky.....	57.6	94	40	4.8	1.0	45	2 Fd.	—
			Parkland.....	70.4	94	45	4.0	1.8	47	3 C.W. 6R.	—
			Vantmore.....	48.7	96	42	3.6	1.0	44	2 Fd.	—
			Vantage.....	48.3	95	41	4.0	1.0	44	2 Fd.	—
			Montcalm.....	51.8	96	46	4.8	1.8	44	2 Fd.	—
Necessary difference—13.0 bushels. Rainfall—May to August 9.85 inches.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			WILLIAM M. F. ADAM, NOBLEVILLE								
4A.....	14	5	Husky.....	29.7	84	31	1.0	1.0	43	2 Fd.	—
			Parkland.....	31.1	79	36	4.2	1.8	47	3 C.W. 6R.	—
			Vantmore.....	31.0	80	29	1.0	1.0	43	2 Fd.	—
			Vantage.....	31.3	80	31	1.0	1.0	44	2 Fd.	—
			Montcalm.....	34.0	78	37	5.2	2.0	44	2 Fd.	—
No significant grain yield difference between varieties. Rainfall—May to August 10.58 inches.											
			AUGUST KOWALSKY, PORCUPINE PLAIN								
3F.....	14	6	Husky.....	59.3	—	—	—	—	45	2 Fd.	—
			Parkland.....	56.0	—	—	—	—	47	1 Fd.	F.
			Vantmore.....	50.2	—	—	—	—	44	2 Fd.	—
			Vantage.....	51.8	—	—	—	—	46	1 Fd.	—
			Montcalm.....	51.9	—	—	—	—	45	2 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			OREST J. NAWROCKI, SYLVANIA								
3F.....	14	7	Husky.....	29.6	95	32	1.8	2.0	47	1 Fd.	—
			Parkland.....	24.5	95	33	2.6	2.8	50	1 Fd.	G., W.
			Vantmore.....	26.0	95	31	1.8	1.8	45	2 Fd.	—
			Vantage.....	32.2	95	32	3.2	2.0	47	1 Fd.	—
			Montcalm.....	29.0	95	32	3.6	2.8	46	1 Fd.	G., W.
No significant grain yield difference between varieties. Rainfall—May to August 8.81 inches.											
			KENNETH E. NABER, WHITTOME								
3D.....	14	8	Husky.....	35.2	96	42	1.8	2.0	53	1 Fd.	—
			Parkland.....	59.2	91	44	1.0	1.0	53	3 C.W. 6R.	W.
			Vantmore.....	53.5	97	42	1.3	1.0	47	1 Fd.	—
			Vantage.....	58.0	98	45	1.0	1.0	51	1 Fd.	—
			Montcalm.....	58.3	92	44	2.6	1.0	50	3 C.W. 6R.	W.
Necessary difference—13.7 bushels. Rainfall—May to August 8.88 inches.											
			ERNEST POGGEMILLER, RUNCIMAN								
3F.....	14	10	Husky.....	66.4	111	46	—	1.0	52	1 Fd.	—
			Parkland.....	58.1	99	49	—	2.0	52	3 C.W. 6R.	W.
			Vantmore.....	56.9	104	45	—	1.0	49	1 Fd.	—
			Vantage.....	64.3	104	44	—	1.0	50	1 Fd.	—
			Montcalm.....	79.4	99	49	—	2.0	52	3 C.W. 6R.	W.
Necessary difference—5.3 bushels. Rainfall—May to August 8.03 inches.											
			DELMER A. WALL, JORDAN RIVER								
3F.....	14	11	Husky.....	70.0	83	—	—	—	52	1 Fd.	—
			Parkland.....	64.2	82	—	—	—	52	3 C.W. 6R.	F.
			Vantmore.....	57.3	81	—	—	—	48	1 Fd.	—
			Vantage.....	68.4	83	—	—	—	51	1 Fd.	—
			Montcalm.....	69.4	82	—	—	—	52	3 C.W. 6R.	F.
No significant grain yield difference between varieties. Rainfall—May to August 6.91 inches.											

Tests discarded on account of damage by flooding, pests, hail, drought or other causes

3C.....	14	2	Garry and Dennis Ott, Wadena.
4A.....	14	4	Diane S. Schweitzer, Archerwill.
3D.....	14	9	Douglas G. Spencer, Fairy Glen.

WHEAT POOL DISTRICT 15

			RALPH H. DEXTER, MESKANAW								
3D.....	15	1	Husky.....	70.7	89	—	—	—	47	1 Fd.	—
			Parkland.....	68.4	87	—	—	—	49	2 C.W. 6R.	—
			Vantmore.....	59.5	87	—	—	—	47	1 Fd.	—
			Vantage.....	67.3	87	—	—	—	43	2 Fd.	—
			Montcalm.....	74.2	87	—	—	—	46	3 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall—May to August 6.73 inches.											
			ALFRED W. NEUFELDT, LAIRD								
3G.....	15	4	Husky.....	51.4	—	34	1.8	2.4	48	1 Fd.	—
			Parkland.....	37.8	—	36	1.6	3.0	47	1 Fd.	F.
			Vantmore.....	55.8	—	33	1.2	1.0	47	1 Fd.	—
			Vantage.....	63.0	—	32	2.0	1.0	49	1 Fd.	—
			Montcalm.....	39.6	—	35	2.2	2.2	47	1 Fd.	F.
Necessary difference—6.0 bushels. Rainfall—May to August 6.36 inches.											
			JOHN REBAN, BLAINE LAKE								
3G.....	15	5	Husky.....	41.1	—	—	—	—	42	3 Fd.	—
			Parkland.....	37.7	—	—	—	—	45	2 Fd.	F.
			Vantmore.....	39.5	—	—	—	—	43	2 Fd.	—
			Vantage.....	43.4	—	—	—	—	46	1 Fd.	—
			Montcalm.....	41.3	—	—	—	—	45	2 Fd.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.											

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			WAYNE A. PEARSON, CANWOOD								
3J	15	6	Husky	52.2	—	34	2.6	2.0	47	1 Fd.	—
			Parkland	51.9	—	39	2.4	2.4	51	1 Fd.	F.
			Vantmore	53.0	—	39	1.6	1.2	47	1 Fd.	—
			Vantage	52.4	—	35	1.4	1.6	48	1 Fd.	—
			Montcalm	59.0	—	43	2.8	2.0	49	1 Fd.	F.
No significant grain yield difference between varieties. Rainfall—May to August 7.52 inches.											
			GORDON R. McILROY, SHELLBROOK								
3J	15	8	Husky	32.7	108	26	1.0	2.0	50	1 Fd.	—
			Parkland	27.8	102	24	1.0	2.0	52	1 Fd.	F.
			Vantmore	27.6	102	18	1.0	1.0	48	1 Fd.	—
			Vantage	29.1	102	18	1.0	1.0	48	1 Fd.	—
			Montcalm	29.2	102	25	1.0	2.0	52	1 Fd.	F.
Necessary difference—3.3 bushels. Rainfall record incomplete.											
			HENRY VAN MARUM, ALINGLY								
3J	15	9	Husky	49.6	—	—	—	—	40	3 Fd.	—
			Parkland	48.5	—	—	—	—	46	1 Fd.	F.
			Vantmore	57.9	—	—	—	—	44	2 Fd.	—
			Vantage	47.6	—	—	—	—	46	1 Fd.	—
			Montcalm	52.4	—	—	—	—	41	3 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
			BERNARD M. GODIN, SMEATON								
3J	15	11	Husky	48.2	93	22	—	—	49	1 Fd.	—
			Parkland	43.0	88	27	—	—	49	1 Fd.	F.
			Vantmore	39.3	91	24	—	—	47	1 Fd.	—
			Vantage	41.4	91	24	—	—	47	1 Fd.	—
			Montcalm	47.9	90	28	—	—	50	1 Fd.	F.
Necessary difference—6.5 bushels. Rainfall—May to August 7.91 inches.											

WHEAT POOL DISTRICT 16

			GRANT R. PEDEN, MAYMONT								
3G	16	1	Husky	46.0	—	25	—	2.0	52	1 Fd.	—
			Parkland	37.2	—	28	—	1.0	53	1 Fd.	F.
			Vantmore	36.6	—	25	—	1.0	50	1 Fd.	—
			Vantage	46.0	—	25	—	1.0	52	1 Fd.	—
			Montcalm	42.7	—	27	—	1.0	52	1 Fd.	F.
Necessary difference—7.4 bushels. Rainfall—May to August 4.54 inches.											
			WALTER KALYN, HAFFORD								
3G	16	2	Husky	87.3	96	50	3.4	2.0	50	1 Fd.	—
			Parkland	73.5	97	54	2.0	2.0	49	3 C.W. 6R.	D.
			Vantmore	63.7	93	49	3.4	1.0	50	1 Fd.	—
			Vantage	67.0	95	49	4.4	2.0	52	1 Fd.	—
			Montcalm	74.4	94	52	6.0	2.6	49	3 C.W. 6R.	D.
Necessary difference—13.2 bushels. Rainfall—May to August 9.03 inches.											
			NORMAN J. WOYTOWICH, WHITKOW								
3G	16	3	Husky	52.1	—	41	—	—	52	1 Fd.	—
			Parkland	50.4	—	43	—	—	51	1 C.W. 6R.	—
			Vantmore	50.1	—	37	—	—	49	1 Fd.	—
			Vantage	56.2	—	35	—	—	47	1 Fd.	—
			Montcalm	62.2	—	38	—	—	50	1 C.W. 6R.	—
No significant grain yield difference between varieties. Rainfall—May to August 8.27 inches.											
			S. BARRY BRAUN, BRESAYLOR								
3E	16	5	Husky	84.8	—	—	—	—	52	1 Fd.	—
			Parkland	74.1	—	—	—	—	52	1 Fd.	F.
			Vantmore	74.5	—	—	—	—	48	1 Fd.	—
			Vantage	85.2	—	—	—	—	50	1 Fd.	—
			Montcalm	82.5	—	—	—	—	51	1 Fd.	F.
Samples incomplete—yields not included in zone summary. Rainfall record incomplete.											
			ERNEST HOLMAN, LLOYDMINSTER								
3E	16	6	Husky	39.3	—	—	—	—	49	1 Fd.	—
			Parkland	33.0	—	—	—	—	50	1 Fd.	D.
			Vantmore	33.5	—	—	—	—	47	1 Fd.	—
			Vantage	35.4	—	—	—	—	47	1 Fd.	—
			Montcalm	41.4	—	—	—	—	51	1 Fd.	D.
Necessary difference—4.5 bushels. Rainfall—May to August 11.48 inches.											
			ERNEST F. HANNIS, FRENCHMAN BUTTE								
4B	16	7	Husky	59.0	105	37	3.8	2.2	47	1 Fd.	—
			Parkland	58.6	103	39	2.6	2.6	52	3 C.W. 6R.	D.
			Vantmore	66.4	103	35	2.2	1.2	47	1 Fd.	—
			Vantage	55.1	104	35	2.6	1.4	47	1 Fd.	—
			Montcalm	63.7	103	41	2.2	2.6	48	3 C.W. 6R.	D.
No significant grain yield difference between varieties. Rainfall—May to August 8.70 inches.											

Wheat Pool District 16—*Continued*

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
GARY J. McKAY, BELBUTTE											
4B	16	9	Husky	—	—	—	—	—	51	1 Fd.	—
			Parkland	—	—	—	—	—	51	1 Fd.	F.
			Vantmore	—	—	—	—	—	47	1 Fd.	—
			Vantage	—	—	—	—	—	48	1 Fd.	—
			Montcalm	—	—	—	—	—	50	1 Fd.	F.
Test damaged by horses—yields not scientifically reliable. Rainfall—May to August 10.24 inches.											
NEIL AND ROBERT PAGE, MULLINGAR											
3G	16	10	Husky	27.3	—	37	2.2	—	32	3 Fd.	—
			Parkland	29.1	—	40	1.8	—	38	3 Fd.	—
			Vantmore	27.9	—	38	2.2	—	37	3 Fd.	—
			Vantage	36.4	—	37	2.2	—	37	3 Fd.	—
			Montcalm	32.2	—	40	2.2	—	35	3 Fd.	—
No significant grain yield difference between varieties. Rainfall record incomplete.											
C. DALE MADDEN, MEADOW LAKE											
3H	16	11	Husky	79.2	—	—	—	—	47	1 Fd.	—
			Parkland	61.1	—	—	—	—	61	1 Fd.	F.
			Vantmore	58.1	—	—	—	—	46	1 Fd.	—
			Vantage	69.8	—	—	—	—	48	1 Fd.	—
			Montcalm	61.5	—	—	—	—	45	2 Fd.	—
Necessary difference—9.1 bushels. Rainfall record incomplete.											
RICHARD J. HUTTER, GOODSOIL											
3H	16	11	Husky	44.4	95	33	2.2	—	47	1 Fd.	—
			Parkland	44.6	92	35	3.2	—	48	1 Fd.	G., F.
			Vantmore	41.7	92	32	1.6	—	46	1 Fd.	—
			Vantage	46.2	92	31	1.0	—	46	1 Fd.	—
			Montcalm	53.1	92	36	3.2	—	47	1 Fd.	G., F.
Necessary difference—5.0 bushels. Rainfall—May to August 10.01 inches.											

DURUM WHEAT TESTS

A total of 38 durum wheat tests were conducted in 1956. They were confined to those zones in the southern part of the province where durum wheat is frequently grown. This area included Cereal Variety Zones 1A, 1B, 1C, 1D, 2A, 2B, 2E and 3A. (For the location of these zones see the map on page 45.) The five varieties Stewart, Pelissier, Golden Ball, Ramsey and Langdon were included in all tests.

DESCRIPTION OF VARIETIES

Note—For a report on official recommendations and yielding ability of the following varieties, see "Summarization According to Cereal Variety Zones" on page 75.

Stewart is a high quality durum variety developed at the North Dakota Agricultural Experiment Station in co-operation with the United States Department of Agriculture. It was licensed in Canada in 1946. It has long, medium-strong straw and is late in maturity. It is resistant to leaf rust, but moderately susceptible to loose and covered smut and susceptible to race 15B of stem rust.

Pelissier was brought to the United States from Algeria about 1900 and later came to Canada. It has shorter straw than Stewart and is somewhat earlier. It is high yielding and drought resistant. Pelissier is resistant to leaf rust, but moderately susceptible to loose and covered smut. It is inferior to Stewart in macaroni quality and cannot be graded higher than Extra No. 4 C.W.

Golden Ball—This variety was grown in these tests under the code number D-50. It was brought to the United States from Algeria in 1918. It is medium-late maturing and has solid, medium-strong straw. It is resistant to leaf rust and loose smut, moderately resistant to stem rust and moderately susceptible to rootrot. Because of its solid straw it is resistant to sawfly damage. Golden Ball is inferior to Stewart in macaroni quality and cannot be graded higher than Extra No. 4 C.W. Because of this low macaroni quality the Canadian license for Golden Ball was cancelled some 15 years ago.

Ramsey was grown in these tests under the code number D-110. It was developed in North Dakota from a cross between Carleton and an unnamed variety from Palestine. It is equal in maturity to Mindum and Stewart and has slightly shorter, slightly stronger straw. It has some resistance to race 15B of stem rust. Ramsey was licensed for commercial distribution in Canada in January 1957. It is equal to Stewart in macaroni quality and is eligible for top durum grades.

Langdon is an unlicensed variety grown in these tests under the code number D-14. It was developed in North Dakota and released for distribution in the United States, but it has not been licensed in Canada because of its inferior quality in comparison with Mindum, the Canadian standard. It is slightly earlier than Stewart and has shorter, stronger straw. It is moderately resistant to race 15B of stem rust, but susceptible to leaf rust.

PERFORMANCE OF VARIETIES

Table No. 52—Average Yields in Bushels Per Acre Summarized by Cereal Variety Zones

Cereal** Variety Zone	No. of Satisfactory Tests	Stewart	Pelissier	Golden Ball	Ramsey	Langdon	Necessary Difference* in Bushels
1A.....	4	32.6	35.1	27.7	31.5	31.1	2.48
1C.....	3	31.2	32.5	30.8	32.0	28.6	1.91
1D.....	6	33.9	36.3	33.6	33.4	30.4	1.62
2A.....	3	25.8	24.6	24.6	25.0	23.1	2.65
2B.....	6	43.1	43.0	40.3	39.6	38.0	2.59
3A.....	5	36.6	33.6	28.2	32.0	32.3	2.59

***Necessary Difference:** Since yielding ability of varieties cannot be measured with absolute accuracy, small differences have no significance. "Necessary difference" is a statistical measurement of this difference, Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular zone group
**See zone map, page 45.

Table No. 52. **Stewart** and **Pelissier** yielded equally well on an average basis in these zones. Each placed first in three zones and second in two. **Ramsey** placed third on an average basis, although it placed first in Zone 2E. **Golden Ball** placed fourth on an average basis and **Langdon** was generally lower in yield than the other varieties tested.

Table No. 53—Average Number of Days From Seeding to Ripening Summarized by Cereal Variety Zones

Cereal Variety Zone	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
1A	105.3	105.3	105.3	101.3	101.7
1C	103.7	109.3	109.7	105.0	105.3
1D	123.5	123.5	121.5	122.8	121.5
2B	100.7	106.3	105.3	100.0	100.7
3A	115.5	114.5	115.5	119.0	115.5

HISTOGRAMS SHOWING DURUM WHEAT YIELDS BY CEREAL VARIETY ZONES

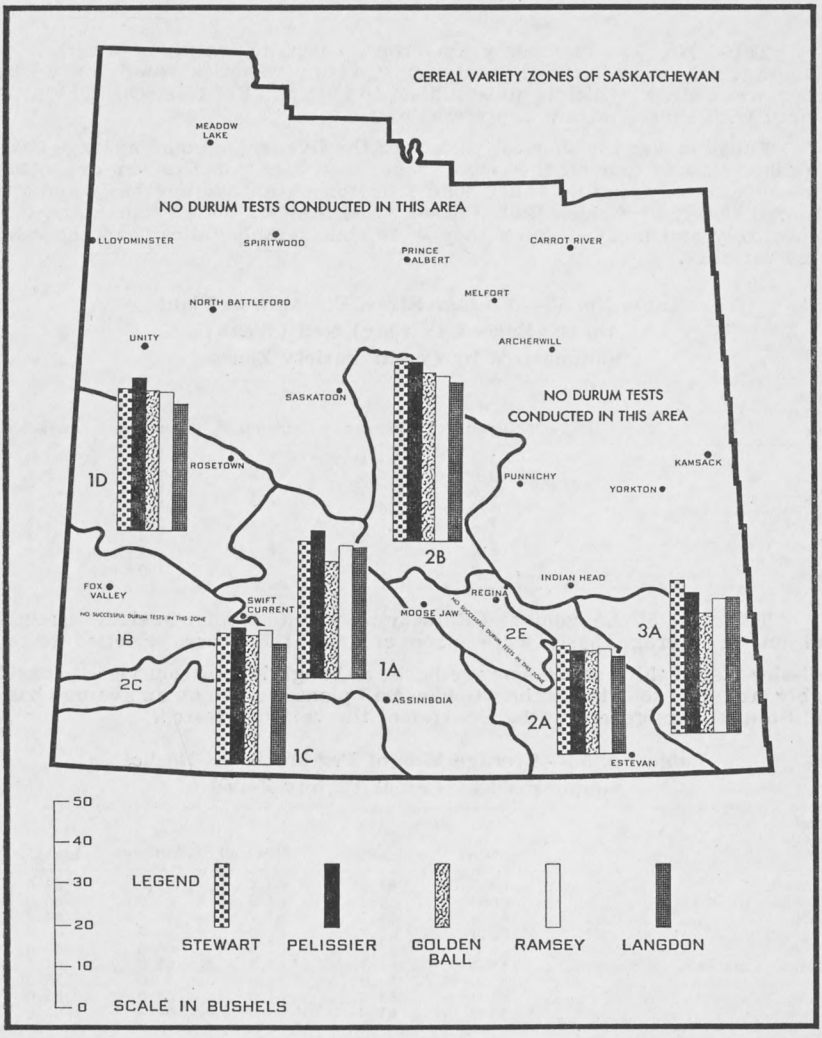


Table No. 53. Most of the common durum varieties are so late maturing that they are subject to frost damage in many areas of the province. Therefore, any significant difference in time of maturity between varieties is a fairly important factor. However, in these zones no consistent order of ripening was evident. There was considerable variation from one zone to another and no single statement can be made for the whole area.

Table No. 54—Average Height of Plants in Inches Summarized by Cereal Variety Zones

Cereal Variety Zone	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
1A	37.5	35.5	33.8	36.3	36.3
1C	40.3	37.7	35.3	34.7	33.3
1D	40.2	37.8	36.0	37.6	35.8
2A	34.3	34.3	35.3	32.3	32.3
2B	42.0	40.2	38.3	38.3	38.5
2D	43.0	43.0	38.0	38.0	37.0
2E	47.0	45.0	42.0	43.0	40.0
3A	49.3	47.3	42.7	42.7	44.7

Table No. 54. In most grain crops, adequate length of straw is an advantage for easier harvesting. However, durum varieties usually have long, rather weak straw, which is quite subject to lodging. For this reason a durum variety with shorter straw is preferable.

Langdon was the shortest variety of the five tested on an average basis. It ranked first in four of the eight zones and tied for first in one other. **Ramsey** was only slightly taller than Langdon on an average basis and was followed closely by **Golden Ball. Pelissier** and **Stewart** placed fourth and fifth respectively and in most cases they were considerably taller than the other three varieties.

Table No. 55—Average Straw Strength of Plants On the Basis 1 (Strong) to 9 (Weak) Summarized by Cereal Variety Zones

Cereal Variety Zone	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
1A	4.2	3.1	5.4	3.1	4.0
1C	2.6	1.6	1.8	2.2	2.1
1D	2.6	2.2	3.1	1.8	1.7
2A	5.4	4.7	5.4	5.0	4.9
2B	2.2	1.8	2.3	2.0	2.1
2D	3.4	4.8	3.2	2.8	2.4
2E	5.6	5.8	5.4	4.8	5.2
3A	2.7	2.2	1.5	1.9	1.8

Table No. 55. **Langdon** and **Ramsey** were quite similar in straw strength and on an average basis were stronger than the other varieties tested.

Pelissier placed third on an average basis, although its position varied considerably from one zone to another. **Golden Ball** placed fourth on an average basis and **Stewart** was generally the weakest of the varieties tested.

Table No. 56—Average Weight Per Measured Bushel Summarized by Cereal Variety Zones

Cereal Variety Zone	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
1A	63.0	61.8	60.4	63.0	62.6
1B	66.0	65.0	64.0	65.0	66.0
1C	65.0	64.7	63.7	65.7	64.7
1D	62.4	61.7	61.0	62.1	60.7
2A	66.0	65.0	65.3	66.0	65.0
2B	65.4	65.3	63.9	65.0	64.5
2D	55.0	54.0	55.0	59.0	56.0
2E	65.0	63.0	61.0	63.0	65.0
3A	63.6	61.8	58.6	64.4	62.6

Table No. 56. **Stewart** showed the highest bushel weight on an average basis of the five varieties tested. It ranked first in two zones and tied for first place in four others. **Ramsey** placed second in weight on an average basis followed by **Langdon. Pelissier** and **Golden Ball** were consistently lower in bushel weight than were the other varieties.

Table No. 57—Percentage of Commercial Grades by Varieties

Variety	1 C.W. %	2 C.W. %	3 C.W. %	Ex. 4 C.W. %	4 C.W. %	5 C.W. %	6 C.W. %	Feed %
Stewart	20.6	17.6	11.8	—	23.6	20.6	2.9	2.9
Pelissier	—	—	—	35.3	35.3	14.7	11.8	2.9
Golden Ball	—	—	—	32.4	29.4	17.6	11.8	8.8
Ramsey	11.8	23.5	14.7	—	23.5	20.7	2.9	2.9
Langdon	5.9	20.6	14.7	2.9	29.5	17.6	5.9	2.9

Table No. 57. At the time of writing, no grading standards for Langdon had been established in Canada, but for the purposes of these tests, it was assumed to be eligible for the top durum grades. Since Pelissier and Golden Ball are not eligible for grades higher than Extra No. 4 C.W. no direct comparison can be made between these varieties and the other three. However, this grade differential and the resulting price spread should be kept in mind when choosing a variety. The effect of frost is evident in the fairly substantial portion of the samples contained in the lower grades.

Stewart graded better than the other varieties with nearly 21% of the samples included in No. 1 C.W. **Ramsey** placed second with 12% in the top grade and **Langdon** was substantially lower with 6%. **Pelissier** and **Golden** Ball were closely comparable in grade.

SUMMARIZATION ACCORDING TO CEREAL VARIETY ZONES

1956 was the first year for some time that the Wheat Pool conducted a series of tests consisting only of durum varieties. However, in a number of recent years, one or two durum varieties were included in tests with bread wheat varieties. Therefore, long-term yield information is available for only some of the varieties tested in 1956.

Table No. 58—Summarized Results for Zone 1A

(4 satisfactory tests)

	Stewart	Pellisier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	32.6	35.1	27.7	31.5	31.1
Days from seeding to ripening	105.3	105.3	105.3	101.3	101.7
Height of plants in inches	37.5	35.5	33.8	36.3	36.3
Straw strength (maximum of 1)	4.2	3.1	5.4	3.1	4.0
Bushel weight in pounds	63.0	61.8	60.4	63.0	62.6
Commercial grades in percentage: 1 C.W.	20.0	—	—	20.0	20.0
2 C.W.	40.0	—	—	20.0	20.0
3 C.W.	20.0	—	—	20.0	20.0
Ex. 4 C.W.	—	40.0	20.0	—	—
4 C.W.	—	40.0	40.0	20.0	20.0
5 C.W.	20.0	—	20.0	—	—
6 C.W.	—	20.0	—	20.0	20.0
Feed	—	—	20.0	—	—

Necessary difference—2.5 bushels.

Pelissier placed first in yield in this zone in 1956. It is well adapted to this area and is officially recommended. The reader is reminded that it cannot be graded higher than Extra No. 4 C.W. and the price difference between it and Stewart should be kept in mind when choosing between these varieties.

Stewart placed second in yield in 1956. It performed well compared to the bread wheats in this zone in the previous year and is officially recommended.

Ramsey placed third in yield in 1956, its first year of testing by the Wheat Pool. It was licensed in Canada in January 1957, and must be tested further before any recommendation can be made.

Langdon placed fourth in yield in 1956. It is not licensed in Canada and no recommendation can be made without further testing.

Golden Ball was outyielded by the other four varieties tested in 1956. Because of its low macaroni quality it is not licensed and is not recommended.

Cereal Variety Zone 1B

Only one satisfactory test was located in this zone in 1956. It was conducted by Warren Halvorson of Cabri and can be found in the section "Individual Summarized Results of all Tests—Durum Wheat" on page 80.

Pelissier and Stewart are officially recommended for Zone 1B.

Table No. 59—Summarized Results for Zone 1C

(3 satisfactory tests)

	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	31.2	32.5	30.8	32.0	28.6
Days from seeding to ripening	103.7	109.3	109.7	105.0	105.3
Height of plants in inches	40.3	37.7	35.3	34.7	33.3
Straw strength (maximum of 1)	2.6	1.6	1.8	2.2	2.1
Bushel weight in pounds	65.0	64.7	63.7	65.7	64.7
Commercial grades in percentage: 1 C.W.	33.3	—	—	33.3	—
2 C.W.	33.3	—	—	33.3	33.3
3 C.W.	—	—	—	—	33.4
Ex. 4 C.W.	—	66.7	33.3	—	—
4 C.W.	33.4	33.3	66.7	33.4	33.3

Necessary difference—1.9 bushels.

Pelissier outyielded the other four varieties tested in this zone in 1956. It is well adapted to this area and is officially recommended. It should be noted that there is a difference in the grading ability and hence in the price of Pelissier and Stewart, which should be kept in mind when choosing between these varieties.

Ramsey placed second in yield in its first year of testing by the Wheat Pool. It was licensed in Canada in January 1957, but requires further testing before any recommendation can be made.

Stewart placed third in this zone in 1956. It performed well in this zone in the previous year and is officially recommended.

Golden Ball placed fourth in yield in 1956. It is not recommended.

Langdon was outyielded by the other four varieties tested in this zone in 1956. It is not licensed for commercial distribution in Canada and is not recommended.

Table No. 60—Summarized Results for Zone 1D

(6 satisfactory tests)

	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	33.9	36.3	33.6	33.4	30.4
Days from seeding to ripening	123.5	123.5	121.5	122.8	121.5
Height of plants in inches	40.2	37.8	36.0	37.6	35.8
Straw strength (maximum of 1)	2.6	2.2	3.1	1.8	1.7
Bushel weight in pounds	62.4	61.7	61.0	62.1	60.7
Commercial grades in percentage: 1 C.W.	42.9	—	—	28.6	14.3
2 C.W.	—	—	—	14.3	28.5
Ex. 4 C.W.	—	42.9	42.8	—	—
4 C.W.	14.3	14.3	14.3	14.3	14.3
5 C.W.	28.5	28.5	14.3	28.5	14.3
6 C.W.	—	—	14.3	—	14.3
Feed	14.3	14.3	14.3	14.3	14.3

Necessary difference—1.6 bushels.

Pelissier outyielded the other varieties tested in this zone in 1956. It is well adapted to the area and is officially recommended. When choosing between the two recommended varieties for this zone, growers should keep in mind the difference in grades and hence in price between Pelissier and Stewart.

Stewart placed second in yield in this zone in 1956. It performed well in the previous year as well and is officially recommended.

Golden Ball placed third in yield in this zone in 1956. However, due to its lower macaroni quality it is not recommended.

Ramsey placed fourth in yield in this zone in its first year of testing by the Wheat Pool. It will require further testing before any recommendation can be made.

Langdon was outyielded by the other four varieties tested and is not recommended.

Table No. 61—Summarized Results for Zone 2A

(3 satisfactory tests)

	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	25.8	24.6	24.6	25.0	23.1
Days from seeding to ripening	—	—	—	—	—
Height of plants in inches	34.3	34.3	35.3	32.3	32.3
Straw strength (maximum of 1)	5.4	4.7	5.4	5.0	4.9
Bushel weight in pounds	66.0	65.0	65.3	66.0	65.0
Commercial grades in percentage: 2 C.W.	66.7	—	—	66.7	—
3 C.W.	33.3	—	—	33.3	66.7
Ex. 4 C.W.	—	66.7	100.0	—	33.3
4 C.W.	—	33.3	—	—	—

Necessary difference—2.7 bushels.

Due to the rust hazard in this zone, no durum varieties are recommended for Zone 2A. Tests were conducted in this zone mainly to determine the adaptability of the resistant varieties Ramsey and Langdon.

Stewart placed first in yield by a narrow margin in 1956.

Ramsey placed second in yield in its first year of testing by the Wheat Pool. It was licensed for commercial distribution in Canada in January 1957. It appears to be adapted to this zone, but requires further testing before it can be officially recommended.

Pelissier and **Golden Ball** yielded equally well in this zone in 1956 and tied for third place.

Langdon was outyielded by the other four varieties tested in this zone in 1956.

Table No. 62—Summarized Results for Zone 2B

(6 satisfactory tests)

	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	43.1	43.0	40.3	39.6	38.0
Days from seeding to ripening	100.7	106.3	105.3	100.0	100.7
Height of plants in inches	42.0	40.2	38.3	38.3	38.5
Straw strength (maximum of 1)	2.2	1.8	2.3	2.0	2.1
Bushel weight in pounds	65.4	65.3	63.9	65.0	64.5
Commercial grades in percentage: 1 C.W.	12.5	—	—	—	—
2 C.W.	12.5	—	—	25.0	25.0
3 C.W.	25.0	—	—	37.5	12.5
Ex. 4 C.W.	—	25.0	25.0	—	—
4 C.W.	50.0	50.0	50.0	25.0	62.5
5 C.W.	—	25.0	25.0	12.5	—

Necessary difference—2.6 bushels.

Stewart outyielded the other four varieties tested in this zone in 1956. However, the difference between it and **Pelissier** was very slight. When choosing between these two recommended varieties, a producer should keep in mind the price difference due to the lower macaroni quality of Pelissier.

Golden Ball placed third in yield in the year under review. Because of its low macaroni quality it is not recommended.

Ramsey placed third in this zone in 1956. It requires further testing to determine its adaptability in this area.

Langdon was outyielded by the other four varieties tested in 1956. It is not licensed in Canada and is not recommended.

Cereal Variety Zones 2C and 2D

No durum wheat tests were conducted by the Wheat Pool in these zones in 1956. Pelissier and Stewart are recommended in Zone 2C and Stewart in Zone 2D.

Cereal Variety Zone 2E

Only one successful durum test was located in this zone in 1956. It was conducted by Barry Axford, Gray and can be found in the section "Individual Summarized Results of All Tests—Durum Wheat" on page 81.

For the reasons mentioned in the discussion on Zone 2A above, no durum varieties are officially recommended for this zone.

Table No. 63—Summarized Results for Zone 3A

(5 satisfactory tests)

	Stewart	Pelissier	Golden Ball	Ramsey	Langdon
Yield in bushels per acre	36.6	33.6	28.2	32.0	32.3
Days from seeding to ripening	115.5	114.5	115.5	119.0	115.5
Height of plants in inches	49.3	47.3	42.7	42.7	44.7
Straw strength (maximum of 1)	2.7	2.2	1.5	1.9	1.8
Bushel weight in pounds	63.6	61.8	58.6	64.4	62.6
Commercial grades in percentage: 4 C.W.	40.0	60.0	20.0	60.0	40.0
5 C.W.	60.0	20.0	40.0	40.0	60.0
6 C.W.	—	20.0	20.0	—	—
Feed	—	—	20.0	—	—

Necessary difference—2.6 bushels.

Zone 3A is subject to frequent damage from rust and no durum varieties are officially recommended. Tests were conducted in this zone mainly to test the adaptability of the rust resistant varieties Langdon and Ramsey.

Stewart outyielded the other four varieties tested in this zone in 1956.

Pelissier placed second.

Langdon and **Ramsey** placed third and fourth respectively with very little difference between them. Ramsey was licensed in Canada in January 1957, but requires further testing before any recommendation can be made.

Golden Ball was outyielded by the other four varieties tested.

In the remainder of the province frost is a serious hazard to production of durum wheat and so no tests were conducted by the Wheat Pool. For the same reason, no official recommendations are made for those zones.

Table No. 64

Individual Summarized Results of All Tests — Durum Wheat

The results of all successful durum tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. The zone in which each test was located is shown under the column headed "Cereal Variety Zone." Before consulting the following table the reader is advised to refer to the discussion on page 6, headed, "Facts to be Remembered in Reading and Studying Results."

Important—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the yield performance discussion in the Summarization According to Cereal Variety Zones, which is based on a large number of tests conducted over a period of years.

For an explanation of the abbreviations under "Grading Remarks" see page 7.

WHEAT POOL DISTRICT 1

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			AGNES McMILLEN, CARIEVALE							
3A	1	1	Stewart	35.9	—	—	—	65	4 C.W.	F.
			Pelissier	34.3	—	—	—	63	4 C.W.	F.
			Golden Ball	36.7	—	—	—	65	4 C.W.	F.
			Ramsey	34.0	—	—	—	66	4 C.W.	F.
			Langdon	30.3	—	—	—	62	5 C.W.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
			KIM C. WOOLFITT, AUBURNTON							
3A	1	3	Stewart	54.3	—	—	—	65	4 C.W.	F.
			Pelissier	47.3	—	—	—	62	4 C.W.	F.
			Golden Ball	39.5	—	—	—	59	5 C.W.	I., F.
			Ramsey	38.6	—	—	—	65	4 C.W.	F.
			Langdon	38.2	—	—	—	62	4 C.W.	F.
Necessary difference—8.4 bushels. Rainfall record incomplete.										
			FRANK H. BUCK JR., TORQUAY							
2A	1	6	Stewart	24.0	—	27	8.0	67	2 C.W.	St., B.P.
			Pelissier	18.7	—	31	7.0	67	Ex. 4 C.W.	—
			Golden Ball	19.9	—	29	8.0	65	Ex. 4. C.W.	—
			Ramsey	20.3	—	27	8.0	67	2 C.W.	St.
			Langdon	15.6	—	28	7.0	65	3 C.W.	St., B.P.
Necessary difference—3.4 bushels. Rainfall record incomplete.										
			DONALD S. DOTY, CARLYLE							
3A	1	10	Stewart	32.9	111	36	—	63	5 C.W.	G., F.
			Pelissier	37.4	109	40	—	63	4 C.W.	F.
			Golden Ball	28.4	111	36	—	58	5 C.W.	G., F.
			Ramsey	36.3	111	36	—	64	4 C.W.	F.
			Langdon	37.7	111	38	—	63	4 C.W.	F.
Necessary difference—4.7 bushels. Rainfall—May to August 9.28 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
3A	1	2	Lloyd W. Sorensen, Alida.							
2A	1	7	Larry L. Skjerdal, Ratcliffe.							

WHEAT POOL DISTRICT 2

			VINCENT J. BOUCHARD, RADVILLE							
2A	2	1	Stewart	28.3	—	39	2.8	65	2 C.W.	I.
			Pelissier	26.9	—	38	2.4	63	4 C.W.	G., I.
			Golden Ball	23.2	—	39	2.8	65	Ex. 4 C.W.	—
			Ramsey	29.1	—	39	2.0	65	2 C.W.	I.
			Langdon	32.3	—	38	2.8	65	3 C.W.	G., I.
Necessary difference—4.8 bushels. Rainfall—May to August 5.59 inches.										
			F. MARJORIE COLVIN, CORONACH							
1A	2	3	Stewart	—	105	28	2.0	65	2 C.W.	I.
			Pelissier	—	107	29	2.0	62	Ex. 4 C.W.	—
			Golden Ball	—	106	28	2.0	63	4 C.W.	I.
			Ramsey	—	105	28	1.6	65	2 C.W.	I.
			Langdon	—	105	28	2.0	64	3 C.W.	I.
Unsatisfactory germination—yields not scientifically reliable. Rainfall—May to August 5.91 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			GLENN R. McKEE, STRATHALLEN							
1C	2	5	Stewart	21.4	102	37	3.4	63	2 C.W.	I.
			Pelissier	17.1	119	32	1.6	62	Ex. 4 C.W.	—
			Golden Ball	19.7	117	26	1.6	60	4 C.W.	G., I.
			Ramsey	21.9	109	23	2.4	64	2 C.W.	I.
			Langdon	18.5	114	22	2.2	63	3 C.W.	G., I.
Necessary difference—2.3 bushels. Rainfall—May to August 8.74 inches.										
			RONALD A. FORSBERG, RITCHIE							
1A	2	9	Stewart	25.9	—	37	2.6	63	3 C.W.	G., I.
			Pelissier	22.4	—	35	2.4	63	4 C.W.	F.
			Golden Ball	19.9	—	33	3.2	60	5 C.W.	G., F.
			Ramsey	25.0	—	35	2.0	63	4 C.W.	F.
			Langdon	24.0	—	33	1.8	63	4 C.W.	F.
No significant grain yield difference between varieties. Rainfall—May to August 8.47 inches.										

WHEAT POOL DISTRICT 3

			MARVIN K. RABE, VIDORA							
1C	3	5	Stewart	38.7	103	39	2.0	67	1 C.W.	—
			Pelissier	42.4	104	38	1.2	67	Ex. 4 C.W.	—
			Golden Ball	38.7	106	37	1.0	65	Ex. 4 C.W.	—
			Ramsey	34.6	101	38	1.8	67	1 C.W.	—
			Langdon	31.4	97	36	2.0	66	2 C.W.	St.
Necessary difference—4.6 bushels. Rainfall—May to August 7.20 inches.										
			BARRY A. RAYMOND, ANEROID							
1C	3	10	Stewart	33.4	106	45	2.4	65	4 C.W.	F.
			Pelissier	38.1	105	43	2.0	65	4 C.W.	F.
			Golden Ball	33.9	106	43	2.8	66	4 C.W.	F.
			Ramsey	39.4	105	43	2.4	66	4 C.W.	F.
			Langdon	36.0	105	42	2.2	65	4 C.W.	F.
Necessary difference—3.2 bushels. Rainfall record incomplete.										

WHEAT POOL DISTRICT 4

			DONALD D. DOWDESWELL, PENNANT							
1D	4	5	Stewart	44.3	113	36	—	66	1 C.W.	—
			Pelissier	46.3	114	34	—	66	Ex. 4 C.W.	—
			Golden Ball	39.2	113	33	—	66	Ex. 4 C.W.	—
			Ramsey	40.0	114	33	—	66	2 C.W.	I.
			Langdon	37.5	112	32	—	66	2 C.W.	I.
Necessary difference—4.1 bushels. Rainfall—May to August 6.34 inches.										
			OREST FILYK, SCEPTRE							
1D	4	9	Stewart	32.6	125	39	4.0	62	5 C.W.	G., F.
			Pelissier	26.0	125	33	2.8	60	5 C.W.	G., F.
			Golden Ball	28.0	124	31	4.8	62	6 C.W.	G., F.
			Ramsey	30.2	126	34	2.4	62	5 C.W.	G., F.
			Langdon	26.4	126	30	2.2	60	6 C.W.	G., F.
Necessary difference—2.9 bushels. Rainfall—May to August 8.74 inches.										
			WARREN HALVORSON, CABRI							
1B	4	10	Stewart	40.9	—	—	—	66	1 C.W.	—
			Pelissier	36.7	—	—	—	65	Ex. 4 C.W.	—
			Golden Ball	40.0	—	—	—	64	Ex. 4 C.W.	—
			Ramsey	40.5	—	—	—	65	2 C.W.	I.
			Langdon	41.3	—	—	—	66	2 C.W.	I.
No significant grain yield difference between varieties. Rainfall record incomplete.										

WHEAT POOL DISTRICT 5

			S. GARRY STAMM, VANTAGE							
1A	5	1	Stewart	17.4	—	—	—	60	5 C.W.	F.
			Pelissier	16.6	—	—	—	56	6 C.W.	F.
			Golden Ball	15.4	—	—	—	52	Fd.	F.
			Ramsey	18.4	—	—	—	58	6 C.W.	F.
			Langdon	15.6	—	—	—	57	6 C.W.	F.
No significant grain yield difference between varieties. Rainfall—May to August 6.47 inches.										
			JAMES WIELER, PAMBRUN							
1A	5	3	Stewart	39.1	93	38	5.0	63	1 C.W.	—
			Pelissier	47.9	91	33	2.4	65	Ex. 4 C.W.	—
			Golden Ball	40.4	91	31	9.0	65	Ex. 4 C.W.	—
			Ramsey	40.3	81	37	3.8	65	1 C.W.	—
			Langdon	38.4	81	37	3.8	66	1 C.W.	—
Necessary difference—4.5 bushels. Rainfall—May to August 6.04 inches.										

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
			JOHN HETHERINGTON, OLD WIVES							
1A	5	6	Stewart	47.8	118	47	7.4	64	2 C.W.	I.
			Pelissier	53.6	118	45	4.8	63	4 C.W.	F.
			Golden Ball	35.2	119	43	6.8	62	4 C.W.	F.
			Ramsey	42.3	118	45	5.2	64	3 C.W.	G., I.
			Langdon	46.3	119	47	6.2	63	2 C.W.	I.
Necessary difference—5.0 bushels. Rainfall—May to August 6.99 inches.										
			ERIC C. WILKINSON, MARQUIS							
2B	5	8	Stewart	52.1	—	48	2.0	67	2 C.W.	St.
			Pelissier	47.6	—	45	2.0	66	Ex. 4 C.W.	—
			Golden Ball	44.2	—	40	2.0	67	Ex. 4. CW.	—
			Ramsey	47.1	—	41	2.0	67	2 C.W.	St.
			Langdon	44.6	—	42	2.0	66	2 C.W.	St.
Necessary difference—4.8 bushels. Rainfall—May to August 5.76 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2E	5	7	Thomas A. Shillington, Grayburn.							

WHEAT POOL DISTRICT 6

			BARRY AXFORD, GRAY							
2E	6	2	Stewart	43.8	—	47	5.6	65	5 C.W.	G., F.
			Pelissier	46.0	—	45	5.8	63	6 C.W.	G., F.
			Golden Ball	32.8	—	42	5.4	61	6 C.W.	G., F.
			Ramsey	48.1	—	43	4.8	63	5 C.W.	G., F.
			Langdon	39.3	—	40	5.2	65	5 C.W.	G., F.
Necessary difference—8.0 bushels. Rainfall—May to August 10.12 inches.										
			BARRY HERTZOG, PARRY							
2A	6	3	Stewart	25.2	—	37	—	66	3 C.W.	I.
			Pelissier	28.2	—	34	—	65	Ex. 4 C.W.	—
			Golden Ball	30.6	—	38	—	66	Ex. 4 C.W.	—
			Ramsey	25.7	—	31	—	66	3 C.W.	I., E.
			Langdon	21.5	—	31	—	65	Ex. 4 C.W.	G., I., E.
No significant grain yield difference between varieties. Rainfall record incomplete.										
			GERALD F. KISTNER, DISLEY							
2B	6	10	Stewart	45.3	—	43	2.0	64	4 C.W.	F.
			Pelissier	42.6	—	43	1.6	67	5 C.W.	F.
			Golden Ball	39.5	—	42	3.0	61	5 C.W.	F.
			Ramsey	40.3	—	42	2.2	64	5 C.W.	F.
			Langdon	39.8	—	43	1.2	65	4 C.W.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
			GRACE L. SIMPSON, BETHUNE							
2B	6	10	Stewart	32.8	94	38	1.0	63	3 C.W.	I.
			Pelissier	34.2	100	37	1.0	62	4 C.W.	G., I.
			Golden Ball	30.6	99	35	2.0	62	4 C.W.	F.
			Ramsey	35.8	94	36	1.0	65	2 C.W.	I.
			Langdon	18.3	94	35	1.4	63	3 C.W.	G., I.
Langdon damaged—yields not included in zone summary. Rainfall—May to August 6.36 inches.										

WHEAT POOL DISTRICT 7

			BARRIE A. WILSON, WAWOTA							
3A	7	3	Stewart	46.9	—	57	3.6	66	5 C.W.	F.
			Pelissier	32.0	—	52	2.6	61	6 C.W.	G., F.
			Golden Ball	29.1	—	47	1.2	61	6 C.W.	G., F.
			Ramsey	33.0	—	46	2.0	64	5 C.W.	F.
			Langdon	39.6	—	50	1.8	64	5 C.W.	F.
Necessary difference—7.0 bushels. Rainfall—May to August 8.24 inches.										
			BILLIE LARTER, BROADVIEW							
3A	7	7	Stewart	13.0	120	55	1.8	59	5 C.W.	F.
			Pelissier	17.0	120	50	1.8	60	5 C.W.	F.
			Golden Ball	7.2	120	45	1.8	50	Fd.	—
			Ramsey	17.9	127	46	1.8	63	5 C.W.	F.
			Langdon	15.9	120	46	1.8	62	5 C.W.	F.
Necessary difference—5.0 bushels. Rainfall—May to August 7.61 inches.										
Tests discarded on account of damage by flooding, pests, hail, drought or other causes										
2A	7	5	Kenneth A. McCullough, Creelman.							

WHEAT POOL DISTRICT 9

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
TERRY H. BATTY, SILTON										
2B	9	4	Stewart	44.4	—	—	—	67	4 C.W.	F.
			Pelissier	43.1	—	—	—	66	4 C.W.	F.
			Golden Ball	37.3	—	—	—	64	4 C.W.	F.
			Ramsey	41.4	—	—	—	67	4 C.W.	F.
			Langdon	43.7	—	—	—	65	4 C.W.	F.
No significant grain yield difference between varieties. Rainfall record incomplete.										
GORDON G. GWILLIM, DUVAL										
2B	9	5	Stewart	50.7	99	38	2.0	65	4 C.W.	F.
			Pelissier	58.5	112	36	3.0	65	4 C.W.	F.
			Golden Ball	59.6	110	36	3.0	64	4 C.W.	F.
			Ramsey	49.5	99	34	4.0	65	4 C.W.	F., E.
			Langdon	39.6	101	34	4.0	63	4 C.W.	F.
Necessary difference—9.4 bushels. Rainfall—May to August 8.47 inches.										

WHEAT POOL DISTRICT 10

DAVID E. WILSON, WISETON										
1D	10	4	Stewart	28.7	143	42	—	64	5 C.W.	F.
			Pelissier	34.6	140	40	—	62	5 C.W.	F.
			Golden Ball	30.8	137	38	—	63	5 C.W.	F.
			Ramsey	29.6	137	40	—	63	5 C.W.	F.
			Langdon	27.3	135	37	—	63	5 C.W.	F.
Necessary difference—4.8 bushels. Rainfall—May to August 8.70 inches.										
EUGENE H. KEMP, DAVIDSON										
2B	10	7	Stewart	36.6	—	50	4.0	66	4 C.W.	F., St.
			Pelissier	38.6	—	44	1.0	67	5 C.W.	F.
			Golden Ball	33.5	—	43	2.0	64	5 C.W.	F.
			Ramsey	36.1	—	43	1.0	67	3 C.W.	F.
			Langdon	33.3	—	42	2.0	66	4 C.W.	F., St.
No significant grain yield difference between varieties. Rainfall—May to August 7.15 inches.										

WHEAT POOL DISTRICT 11

BOYD TRYTTEN, KYLE										
1D	11	1	Stewart	36.3	—	—	—	66	1 C.W.	—
			Pelissier	43.9	—	—	—	65	Ex. 4 C.W.	—
			Golden Ball	39.9	—	—	—	64	Ex. 4 C.W.	—
			Ramsey	37.9	—	—	—	67	1 C.W.	—
			Langdon	33.4	—	—	—	66	1 C.W.	—
Necessary difference—3.5 bushels. Rainfall—May to August 7.07 inches.										
WILLIAM J. BELL, FORGAN										
1D	11	2	Stewart	28.1	—	—	—	65	4 C.W.	F.
			Pelissier	33.6	—	—	—	65	4 C.W.	F.
			Golden Ball	31.6	—	—	—	65	4 C.W.	F.
			Ramsey	31.3	—	—	—	65	4 C.W.	F.
			Langdon	25.5	—	—	—	64	4 C.W.	F.
Necessary difference—4.8 bushels. Rainfall record incomplete.										
GRANT M. HENRY, LAPORTE										
1D	11	4	Stewart	—	—	41	1.2	49	Fd.	F.
			Pelissier	—	—	41	1.6	48	Fd.	F.
			Golden Ball	—	—	40	1.4	40	Fd.	F.
			Ramsey	—	—	42	1.2	45	Fd.	F.
			Langdon	—	—	41	1.2	40	Fd.	F.
Test damaged by flooding—yields not scientifically reliable. Rainfall—May to August 9.35 inches.										
DENNIS J. MOIR, BEADLE										
1D	11	6	Stewart	33.4	113	43	—	65	1 C.W.	—
			Pelissier	33.3	115	41	—	66	Ex. 4 C.W.	—
			Golden Ball	32.0	112	38	—	67	Ex. 4 C.W.	—
			Ramsey	31.4	114	39	—	67	1 C.W.	—
			Langdon	32.1	113	39	—	66	2 C.W.	I.
No significant grain yield difference between varieties. Rainfall—May to August 10.94 inches.										
VERNE W. ROBBIE, HERSCHEL										
2D	11	8	Stewart	—	—	43	3.4	55	6 C.W.	G., I., F.
			Pelissier	—	—	43	4.8	54	6 C.W.	G., I., F.
			Golden Ball	—	—	38	3.2	55	6 C.W.	G., I., F.
			Ramsey	—	—	38	2.8	59	5 C.W.	I., F.
			Langdon	—	—	37	2.4	56	5 C.W.	I., F.
Uneven germination—yields not scientifically reliable. Rainfall—May to August 9.17 inches.										

WHEAT POOL DISTRICT 13

Cereal Variety Zone	Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MERVYN W. ANDERSON, YOUNG										
2B	13	2	Stewart	—	—	—	—	65	1 C.W.	—
			Pelissier	—	—	—	—	64	Ex. 4 C.W.	—
			Golden Ball	—	—	—	—	64	Ex. 4 C.W.	—
			Ramsey	—	—	—	—	60	3 C.W.	I.
			Langdon	—	—	—	—	63	2 C.W.	St.
Yields not scientifically reliable. Rainfall record incomplete.										
RUSSELL L. FISHER, WATROUS										
2B	13	2	Stewart	29.4	109	35	2.0	66	3 C.W.	St., I.
			Pelissier	27.8	107	36	2.0	65	4 C.W.	F.
			Golden Ball	27.4	107	34	2.0	65	4 C.W.	F.
			Ramsey	23.4	107	34	2.0	65	3 C.W.	I.
			Langdon	27.0	107	35	2.0	65	4 C.W.	F.
No significant grain yield difference between varieties. Rainfall—May to August 7.65 inches.										

Conclusions

Grain production in Saskatchewan during 1956 was beset by a number of difficulties. In the spring in some areas grain was seeded into dry soil in which it could not germinate until the first rainfall. In some cases this rainfall did not occur for two to three weeks after seeding and as a result the crop was delayed considerably. However, while the top soil was dry, there was adequate subsoil moisture and the crop then progressed well. No serious rust damage occurred anywhere in the province and with the exception of some damage to flax by Bertha army worms, insect damage was not serious. Severe hailstorms occurred at scattered locations, but damage was not widespread. However, in mid-August freezing temperatures occurred throughout much of the province and did considerable damage, especially to late crops. In most cases yields were not greatly reduced but grades were lowered considerably.

No startling developments emerged as a result of the 1956 wheat tests. Because of the complete lack of damage from rust, Thatcher yielded well even in the south-east part of the province. However, the reader should keep in mind that rust resistant varieties are more suitable in this area. Selkirk performed well not only in the south-east, but also in the north-eastern portion of the province. Lee was outyielded by the other varieties in most of these zones. It was withdrawn entirely from the official recommendations for 1957. Stewart performed well in the open prairie area, but suffered frost damage in a large part of the province. In most of the zones where Rescue and Chinook were tested, Rescue outyielded Chinook, but this difference is offset to some extent by the more desirable milling and baking quality of Chinook. Lake showed a particular adaptation to the west-central and northern area of the province.

There has been an increased interest in malting barley in recent years and the 1956 tests were watched with interest because of the comparison between malting and feed varieties. In the open prairie region, Husky and Vantage maintained their yield supremacy. Vantmore also looks rather promising in a number of these zones. Titan did not produce outstanding results in 1956, but it has a long-standing reputation for drought resistance, which is quite important in some areas. Parkland was generally lower in yield than the feed varieties in this area. In the eastern, northern and north-eastern area, Montcalm yielded well, but its susceptibility to rust and its rather weak straw are serious handicaps. Husky maintained the reputation for high yields which it has built up in recent years. Parkland is expected to replace Montcalm in much of this area, due to its rust resistance and stronger straw. Vantmore was in general outyielded by the other varieties tested.

The durum wheat tests were of interest because they included two American varieties which have some resistance to rust. Ramsey was licensed in Canada in January 1957 and appears to be fairly well adapted to the south-eastern part of the province. Langdon does not appear too promising in Saskatchewan. Stewart and Pelissier were quite similar in yield in 1956 and both are recommended in most of the zones. Golden Ball did not produce outstanding results in these tests in 1956.

It is hoped that the experience gained in conducting these tests will prove useful to the supervisors and that the appearance of variety tests in many Saskatchewan communities has aroused an interest among producers in the use of the best varieties available.

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ALPHABETICAL INDEX OF VARIETY TEST SUPERVISORS